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Defense Atomic Support Agency

WASHINGTON 25, D.C.

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THE HIGH ALTITUDE SAMPLING PROGRAM

by

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VOLUME 2A

RESULTS OF FILTER ANALYSES (Less Table 4.3 and Flight Cross-Sections)

The Final Report on Contract DA-29-044-XZ-609

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THE HIGH ALTITUDE SAMPLING PROGRAM

PART 1

STRATOSPHERIC RADIOACTIVITY
(continued)

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CHAPTER 4

ANALYTICAL RESULTS

During the High Altitude Sampling Program more than 3600 filter samples of stratospheric dust were collected and analyzed radiochemically for various constituents of radioactive debris from nuclear weapon tests. The data from these analyses are presented here in tables together with some of the important flight data from the sampling missions. Flight cross sections, on which are plotted the observed strontium-90 concentrations, are included to facilitate the visualization of the stratospheric distribution of the debris. First, however, a few introductory remarks must be made on the selection of nuclides for analysis and on the arrangement of the data in tables.

NUCLIDES WHICH HAVE BEEN MEASURED

The objectives of HASP, stated briefly, were the determination of the stratospheric burden and stratospheric residence time of strontium-90 and any other hazardous radionuclides, the description of the mechanisms and rates of mixing and transfer within the stratosphere, and the prediction of future changes in the rate of world-wide fallout and in the relative hazard resulting from it. Thus two groups of nuclides were measured: those which are potentially hazardous and those which yield information on mixing and transfer processes within the atmosphere. The nuclides which were deemed potentially hazardous were strontium-90, cesium-137 and plutonium. Though the gamma dose received by the human population from shorter lived nuclides, such as cerium-144 and zirconium-95, during periods of weapon testing is not negligible, these nuclides were measured primarily for the information they yield on the origin of debris.

Several types of nuclides were useful for the elucidation of mixing and transfer mechanisms. Besides the normal fission products, these included tracer nuclides which characterized debris from one shot or one series of shots, activation products produced in the environment of the shot by the neutrons escaping from the weapon, and cosmic ray audides indigenous to the stratosphere.

The total beta activity of a sample indicates its general content of nuclear debris, and the apparent half life of this activity is a measure of the approximate age of the youngest component of the debris. The activity of mixed fission products decreases approximately according to the relationship:

$$A = A_{1}t^{-1.2}, (1)$$

where A_1 is the activity at unit time after fission and A is the activity at some time, t, later. The apparent half life of the total beta activity increases with time as the shorter lived nuclides decay away. Integration of equation (1) reveals that the half life, $t_1/2$, is related to the age of the debris, T, as follows:

$$T = 1.73t_{1/2}$$
 (2)

Several fission products with half lives between a week and a year were measured to permit more precise determination of apparent age. The activity ratios of shorter-lived to longer-lived fission products in debris decrease with time, and the value of a ratio such as Ba¹⁴⁰/Sr⁸⁹, Sr⁸⁹/Sr⁹⁰ or Ce¹⁴⁴/Sr⁹⁰ may be used to determine the age of debris in a sample. For example, in newly formed debris, the ratio Ba¹⁴⁰/Sr⁸⁹ is about 7.8. This ratio has dropped to 5.1 by the

time the debris is 10 days old and to 2.3 by the time it is thirty days old. Mixing of this debris with older debris containing no measurable barium-140 but some strontium-89 would also lower the ratio, so normally only a maximum possible age could be obtained from stratospheric samples collected at sites remote from testing areas, as in HASP. With increasing age of debris the concentrations of short-lived nuclides become to low to measure, and a series of different ratios must be used between shot date and an age of about two months, Sr^{89}/Sr^{90} might be used up to an age of about a year or a year and a half, and Ce^{144}/Sr^{90} up to an age of several years.

Particles condensing in the cooling fireball of a nuclear weapon are unable to incorporate volatile nuclides, such as iodine-131, xenon-140 or krypton-89, within themselves as effectively as they incorporate nonvolatile nuclides, such as zirconium-95 or cerium-144. Thus, world-wide fallout from surface bursts is normally depleted in nuclides which are nonvolatile and lack volatile precursors, for much of the activity from such shots is deposited in local fallout. As a result, the ratios Ce ¹⁴⁴/Sr ⁹⁰, Zr ⁹⁵/Cs ¹³⁷, etc. are lower in stratospheric fallout from surface bursts than from air shots (which produce negligible local fallout). This may make "dating" of such debris more difficult, but it does permit the extraction of information on shot type from measured nuclide ratios.

Two tracers were injected into the stratosphere during Hardtack. A number of surface bursts produced radiotungsten which subsequently spread within the lower stratosphere with the debris from these shots. A rocket shot, Orange, exploded at about 100,000 feet on 12 August 1958, produced rhodium-102, which subsequently spread within the mesosphere and eventually into the lower atmosphere.

The neutrons emitted from the fireball produce a number of activation products by bombarding the materials around a nuclear weapon. Calcium-45 may be produced in soil, sodium-22 in sea salt, carbon-14 in the air, etc. Sodium-22 and calcium-45 were measured in a few HASP samples, carbon-14 in samples of tropospheric air, and tritium, which may be a constituent of thermonuclear weapons or may be formed during the course of the thermonuclear reactions, was measured in precipitation.

Some measurements, such as analyses of total beta activity and strontium-90 activity, were made routinely on all samples. Other measurements, such as analyses of cesium-137 or rhodium-102, were made only on a few selected samples. However, the determinations included within the routine analyses changed from time to those during the course of the program, and nuclides such as zirconium-95, which were analyzed routinely in all samples at one time, were sought only in special samples at other times.

Routine Analyses

The analyses which were performed routinely on all HASP samples were those which sought the information basic to the solution of the primary objectives of the program. They included the measurement of the total beta and strontium-90 activities to indicate the concentration of nuclear debris in the sample, and the measurement of short-lived fission products and tracer nuclides to indicate its time and place of origin. As experience indicated which data were proving to be the most valuable, and as periods of weapon testing alternated with periods of no testing and finally gave way to a moratorium on testing, it was necessary continually to modify the analytical schedules. The early HASP samples, collected during late 1957 and early 1958, were analyzed for total beta activity, strontium-90 and sirconium-95. The apparent half-life of the total beta activity and the $2r^{95}/3r^{90}$ ratio were used to determine the age of the debris. Samples collected during and after March 1958 were also analyzed for strontium=89, and by mid-April 1958 the zirconium-95 analysis of all samples was temporarily discontinued. By mid-May 1958, tungsten-185 measurements were added to the list of routine analyses, for Hardtack injections of this isotope into the stratosphere By mid-June 1958, in an effort to gain as much information as possible about the origin of fresh debris which was expected to be collected by HASP filters during Hardtack, the routine analysis was expanded to include zirconium-95 and barium-140. At this time, then, all samples were analyzed for total beta activity and strontium-90, for tungsten-185, and for barium-140, strontium-89 and zirconium-95.

Some modifications were made in the analytical procedures during the summer of 1958, while all U-2 aircraft were grounded. Beginning in September 1958, with the commencement of Phase 3 of Crowflight, though total beta activity, strontium-90, strontium-89 and tungsten-185 were still measured in all samples,

zirconium-95 and barium-140 were analyzed only in one quarter of the samples, and these two analyses were performed by gamma spectrometry of disks cut from the untreated filter. This schedule was maintained, generally, throughout Phase 3, though by May 1959 analyses of strontium-89 and tungsten-185 began to be omitted for many samples with low activities, wherein they could not be detected by the routine procedures. This was especially true of samples collected during lower altitude flights from Ezeiza. Toward the end of Phase 3 some tungsten-181 analyses were substituted for tungsten-185 analyses because they could be performed by means of gamma spectrometry on disks cut from the untreated filters. Since barium-140 had by then decayed to undetectable levels, the routine analysis of this nuclide was decreased in frequency and only the samples with especially high beta activities were measured for it.

With the commencement of Phase 4, with virtually all sampling being performed in the Northern Hemisphere, few samples with low activities were obtained and the schedule of routine analyses was again modified. Strontium-90 and tungsten-185 or tungsten-181 analyses were again performed on all samples. By December 1959 it became evident that gamma spectrometry of untreated filters was no longer giving usable data for tungsten-181 and that tungsten separations would be required before measurements. Because of the low activities involved, composites of several samples were used for each analysis and beta counting for tungsten-185 was employed. Composites of several samples were also used for strontium-89 analyses beginning about December 1959 although, for the most part, cerium-144, with its longer half-life, replaced strontium-89 in the scheme of routine analyses. By this time zirconium-95 levels were also too low to be detected any longer by gamma spectrometry of untreated filters and, like barium-140, it was sought only in samples with unusually high beta activities.

Special Analyses

Several nuclides were never included in the schedule of routine analyses or were included in it for only a limited time during the program. This was true of cesium-137 and plutonium, for the relative constancy of the Cs 137/Sr 90 and Pu/Sr 90 ratios in stratospheric debris eliminated the need for the measurement of these in all samples, though more than 300 filters were analyzed for each.

During most of the program cerium-144 was also measured in only a limited number of samples because its half-life was too long for it to be a sensitive indicator of age of debris during times of weapon testing. As the activities of nuclides such as strontium-89 and zirconium-95 decreased during the moratorium on weapon testing, however, the cerium-144 data became more useful, and by December 1959 it was added to the list of nuclides which were being analyzed routinely.

As the strontium-89 activities decreased during 1959 some analyses were made of yttrium-91 activities to determine whether this fission product could be used instead as an indicator of the age of debris. Over 100 samples were measured and the data obtained were fairly good, but it was decided that cerium-144 rather then yttrium-91 would be the most practical substitute for strontium-89 in the analytical scheme.

By early 1959 analytical procedures had been developed for molybdenum-99 and iodine-131 for the more precise determination of age of fresh debris, but the suspension of weapon tests resulted in their never being used on HASP samples. Similarly by early 1960 procedures had been worked out for the analysis of sodium-22 and calcium-45 in filters, but the activities in individual samples were too low by then to permit precise measurements and the program ended before any composites could be analyzed.

During 1959 procedures were designed for the separation and analysis, by beta counting, of rhodium-102. By late 1959 it had become evident that the concentration of this tracer nuclide in HASP samples was quite low and it was decided to use composites of several samples for its analysis. It was also determined that more sensitive measurements could be made using gamma spectrometry to detect the characteristic X-ray from this nuclide. Thus, beginning in December 1959, a series of composites were analysed for rhodium-102.

Since it was deemed desirable to obtain all possible sources of information on mixing processes in the stratosphere, it was decided to attempt to measure the cosmic ray product, beryllium-7, in HASP samples. The composites which were analyzed for rhodium-102 were used also for the beryllium-7 measurements. When these determinations proved to be feasible, the analysis of these composites for phosphorus-32 was also begun, just before the end of the program.

PRESENTATION OF THE DATA

During HASP many analyses have been made of several nuclides and it is not feasible, nor necessarily desirable, to combine all of the resulting flight data and radiochemical data in a single table. The results have been organized in a manner which represents a compromise between brevity and completeness.

The Organization of the Tables

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In order to simplify the tables of data, only a single nuclide or a small number of nuclides have been included in each. All of the pertinent flight data have been presented first, in Table 4.2. Next the data from the routine

analyses have been given in Table 4.3. These include the total beta, strontium-90 and tungsten-185 activities in the samples, some nuclide ratios which are useful for estimating the age and origin of the debris, and the half-life of the total beta activity, which has a similar use. A meridional cross section of the sampling corridor, a profile of the vertical concentration gradient, or a similar diagram is given for each mission to aid in the visualization of the stratospheric distribution of the debris.

Some grouping has been possible in the presentation of the data from the special analyses, for often the same set of samples was chosen for analysis for several nuclides. Thus many of the analyses for strontium-89 and zirconium-95 or for rhodium-102 and beryllium-7 were performed on the same samples. The results of the strontium-89 and zirconjum-95 analyses are given in Table 4.4. These fission products, which have similar half-lives, give information on the age and fractionation of debris. Of similar use are the data for barium-140, yttrium-91, and cerium-144 which are given in Tables 4.5. 4.6 and 4.7 respectively. The measured activities of tungsten-181, reported in Table 4.8 and of rhodium-102, reported in Table 4.9, are useful for deducing mechanisms of stratospheric mixing. The data for beryllium-7, which are also contained in Table 4.9 and those for phosphorus-32, in Table 4.10, have a similar use. Analyses for the potentially hazardous cesium-137 and plutonium are given in Tables 4.11 and 4.12 respectively. In Table 4.13 are given the results of a few analyses of sodium-22 and calcium-45, activation products from surface bursts on Pacific atolls.

Most analyses were made on individual samples, but some nuclides, either throughout the program or during its latter months, had activities too low to be detectable in individual samples. To measure these nuclides, composites were made of several samples collected within a limited range of

latitude, altitude and time and these were analyzed. The samples which were analyzed as composites are listed in Table 4.14.

As a check on the precision of the analyses, two or more aliquots were taken from a number of samples and were analyzed separately. The results of these analyses have been discussed in Chapter 3, Table 3.22. The samples which were analyzed in duplicate are listed in Table 4.15.

Inspection of the analytical data or attempts to interpret them in the light of the meteorological situation which existed at the time of their collection often revealed anomalies which were most easily attributable to analytical errors. Where such apparent errors were found, especially if they were in strontium-90 data, the samples were often reanalyzed. Samples which were reanalyzed for strontium-90 are listed in Table 4. 16. Those which were reanalyzed for other nuclides are listed in Tables 4. 17 and 4. 18.

The Construction of the Flight Cross Sections

A meteorological analysis was prepared for each sampling mission as an aid in the interpretation of the radioactivity data. This analysis was based almost entirely on the radiosonde observations (RAOBS) from weather stations located in the vicinity of the sampling corridor. The RAOB stations which were used are listed in Table 4.1. Supplementary data from the meteorological panel (Little and Big Hickory) installed in some of the U-2 aircraft were also used.

Each RAOB employed in the analysis was plotted on a meteorological sounding diagram (tephigram), which shows the temperature as a function of altitude (pressure). For most of the stations upper wind data, obtained by electronic tracking of the balloons, were also available. (The combined radiosonde and upper wind measuring system is known as "rawinsonde", and

RAWIN data corresponding to each sampling mission were coordinated by plotting them on a vertical cross section representing the sampling corridor. The meteorological analyses shown in the flight cross sections were based on these data and on the lapse rate (temperature - altitude) curves on the tephigrams. The analysis was restricted to the representation of the jet stream (where sufficient upper wind data were available), delineation of the tropopause, and a general indication of stability in the stratosphere.

The jet stream, a narrow core of high wind speed found near the polar tropopause and generally at the bottom of the gap between the polar and tropical tropopauses, is shown by means of isotachs (lines of equal wind speed). These are drawn, as dotted lines, at an interval of 25 knots for wind speeds of 100 knots or greater. The letter J on the cross sections denotes the velocity maximum, or core, of the jet.

below, with its large lapse rate of temperature, from the stratosphere above, in which the lapse rate is small or even negative. A negative lapse rate signifies temperature increasing with altitude, and is also known as an inversion. In many cases the tropopause can be identified unambiguously by the discontinuity of lapse rate. But often the transition from troposphere to stratosphere is diffuse. Since there is no universally accepted strict definition of the tropopause, there is some element of subjectivity in the tropopause analysis. The tropopause is shown on the cross sections as a thick black line, the width of which indicates the fact that the tropopause is a layer rather than a mathematical surface. Almost invariably two (or more) distinct tropopauses, the low polar and high tropical tropopauses, can be found, with the two overlapping in the gap region.

The lapse rate is a useful measure of the intensity of convection (overturning, vertical mixing) that can develop in a layer of air. This tendency to convection is referred to as instability, while the inhibition of convection is called stability. The greater the lapse rate, the smaller the stability. An inversion layer is one of great stability. The stratosphere is generally stable, but not uniformly so. Some regions of the stratosphere, e.g., the tropical stratosphere, are almost invariably characterized by inversions. But others, e.g., the arctic stratosphere in winter, exhibit positive lapse rates and are less stable. To indicate the spatial variation of stratospheric stability in the vertical cross sections, the inversion layers are hatched. The hatched areas thus represent the definitely stable regions of the stratosphere.

The tracks and sampling segments of the aircraft are shown by the arrows on the cross sections. The sample number and, in parentheses, the strontium-90 activity, expressed in disintegrations per minute per one thousand standard cubic feet of air, are plotted on the diagrams, generally above and below, respectively, the appropriate arrow. Also shown on the cross sections are the reports of atmospheric turbulence provided by the pilots of the U-2 aircraft. Turbulence is denoted by L, M, and S for light, moderate, and severe respectively. While these reports are necessarily subjective estimates, they are of considerable interest.

Table 4, 1 Radiosonde Station: Used for the Construction of HASP Flight Cross Sections

A. Stations Used During Phase 2 of Growflight

Station	Number	Latitude	Langitude
Clyde, Northwest Terr.	090	70° 27' N	68 * 33 · W
Frobisher, Northwest Terr,	409	6.) * 45 N	68 ° 34 ′ W
Port Harrison, Quebec	907	58" 27' N	78° 08' W
Fort Chimo, Quebec	906	58° 05' N	68° 25' W
Atlantic Station	"B"	56°30'N	51°00' W
Nitchequan, Quabec	826	53 ' 12 ' N	70 * 35 ' W
Mocsonce, Ortario	836	51 * 16' N	80 ° 39 ' W
Seven Islands, Quebec	811	50° 13' N	66 * 16 ' W
Caribou, Maine	712	46° 52' N	68 ° 01 ' W
Maniwaki, Quebec	722	46° 22' N	75 ° 59' W
Portland, Maine	606	43 ° 39 ' N	70 * 19 ' W
Albany, New York	518	42° 45' N	73 * 48' W
Nantucket island	506	41° 15' N	70 ° 04 ' W
Idlewild, New York	486	40° 46' N	73 ° 52 ' W
Washington, D. C.	405	38° 51' N	77 ° 02' W
Norfolk, Virginia	308	36° 53' N	76° 12' W
Hatteras, North Carolina	304	35° 15' N	75 * 40 W
Charleston, South Carolina	Z08	32° 54' N	80 ° 02' W
Jacksonville, Florida	206	30° 25' N	81 * 39 W
High Rock, Great Bahama I.	063	26" 37' N	78° 20' W
Miami, Florida	204	25 ° 49' N.	80 * 17' W
Coffin Hills, Eleuthera	076	25° 16' N	76 * 18 ' W
Bonefish, Watling I.	089	24 ° 04 ' N	74 * 32 ' W
Grand Turk Island	118	21 30 N	71 * 08' W
Guantanamo, Cuba	367	19 54 N	75 ° 09' W
Sabana de la Mer, Dominican Republic	467	19 ° 03 ° N	69 * 23 * W
San Juan, Puerto Rico	526	18° 27' N	66 ° 06' W
St. Maarten	866	18, 05, M	63 ° 07' W
Raizet, Guadeloupe	897	16. 19. N	61' 31' W
Curacao	988	12 * 11 ¹ N	68° 59' W
Trinidad	967	10° 41' N	61 37 W
Balboa, Panama Canal Zone	806	8 * 58 N	79° 33' W
Guayaquil, EcuadoF	129	2 10 5	79° 53' W
Lima, Peru	631	12 ° 02' S	77 01 W

3. Stations Added for Phase 3 and Phase 5

Station	Latitude	Longitude
Antelagastas Chile	23 28 S	70 * 26' W
Resistencia, Argentina	47° 28' S	58* 59' W
Cordoba, Argentina	41° 19' S	64 ° 13' W
Quistero, Chile	32° 47' S	79 4 32 W
Escisa, Argentina	34 ° 50 ' S	584 321 W
Neuguen, Argentina	38 * 57 * S	68 ° 09 ' W
Puerto Montt, Chile	41 ° 27' S	72 * 50' W
Comodoro, Rivadaria, Afgentina	45 47' S	67° 30' W
Stanley Island	91° 42' 5	57 * 52 · W
Argentine Island	65 * 85 * S	64 * 16' W

C. Stations Used During Phase 4

Station	Number	Latitude	Longitude
Aklavik, Mackennie	968	68" 14" N	135 ' 00 ' W
Coppermine, Mackenzie	933	67° 47' N	115' 15' W
Norman Wells, Mackensie	043	65° 18' N	126*51' W
Fort Smith, Mackenzie	934	60° 01' N	111 * 58 * W
Nelson, British Columbia	945	58" 50' N	122 ° 35 ' W
The Pas, Manitoba	857	53° 58' N	101 ° 06 ° W
Edmonton, Alberta	879	53° 34' N	113 ' 31' W
Blasgow, Montana	768(775)	48° 11' N	106 * 38 W
Blamarck, North Dakota	764	46° 46' N	100 ' 45 · W
Rapid City, South Dakota	662	44° 09' N	103 ° 36 ' W
North Platte, Nebraska	562(553)	41 * 08' N	100 ° 42 ° W
Topeka, Kansas	456	39° 04' N	95 * 37 W
Dodge City, Kansas	451(450)	37° 46' N	99 * 58 · W
Amarillo, Texas	363(353	35° 14' N	101 ° 42 ° W
Midland, Texas	265	32 ° 56' N	102 ° 12 ' W
Fort Worth, Texas	259	32 * 50 · N	97° 03' W
Del Rio, Texas	261(253	29 * 20 · N	100 ° 53 ' W
Corpus Christi, Texas	251	27° 46' N	97 * 26 ' W
Brownsville, Texas	250	25 ' 55' N	97 * 28 * W
Monterrey, Nuevo Leun, Mexico	393	25 ° 40 ° N	100 ° 18' W
Ciudad Victoria, Tampulipas, Mexico	492	23 ° 43 ' N	98 * 55 ' W
Tampico, Tamaulipas, Mexico	549	22 * 18 N	97 * 51 * W
Merida, Yucatan, Mexico	644	20° 58' N	89 * 38 · W
Vera Cruz, Vera Cruz, Mexico	692	19 12 N	76 * 08' W
Chetumal, Quintana Roo, Mexico	751	18* 29' N	88 ° 20 ' W
Swan Island	501	17° 24' N	83 * 56 ' W
Catacamas, Honduras	714	14 ' 51' N	85 * 55 ' W
Puerto Cabezas, Nicaragua	730	14 ° 00' N	83 * 24 * W
San Andres Island, Colombia	100	12' 30' N	81 48 W

D. Stations Used for Sea Fish Special Flights

Station	lumber	Latitude	Longitude
Alert, Ellesmere Island	082	82 ° 33 ' N	62 ° 35 ' W
Eureka, Ellosmere Island	917	80 * 13 * N	86° 11' W
Mould Bay, Northwest Territories	072	76* 17* N	119° 28' W
Resolute, Cornwallis Island	924	74 ' 43 ' N	94 * 59 W
Barter Island, Alaska	086	70 ° 07' N	143 * 40 W
Aklavik, Mackenzic	968	68 14 N	135° 00' W
Coppermine, Mackensie	938	67 * 47' N	115 * 15 · W
Norman Wells, Mackensie	Ó43	65 18 N	126* 51' W
Baker Lake, Dist, of Keewatin	926	64 * 18 N	96 * 05 · W
Coral Harbour, Dist, of Keewatin	915	64 11 N	83 • 17 · W
Anchorage, (International Airport) Alaski		61 ° 10 ° N	149 52 W
Whitehorse, Yukon	964	60 ° 43 ° N	135 * 05 · W
Fort Smith, Mackenzie	934	60 - 01, N	111° 58' W
Capo St. Elias, Alaska	360	59" 48' N	144 36 W
Yakutat, (Intermediate Field) Alaska	361	59° 31' N	139 40 W
Nelson, British Columbia	945		
Melson, Diffish Coldinging	742	58° 50' N	122 ° 35 ' W

FLIGHT DATA FOR HASP MISSIONS

The flight data which are presented here are those necessary for the identification of the sampling missions and the samples collected during them and for their location in time and space. The data which are included in Table 4.2 are the date and number of each mission, the identification number of each aircraft which took part in each mission, an indication of the region sampled during the mission, the sample number assigned to each filter at Isotopes, Inc., the filter number given each by the Air Force, the position of the filter within the sampler, the time, latitude, longitude and altitude at the commencement and termination of each filter exposure, the indicated air speed of the aircraft, and the air temperature during sample collection. In addition the total beta and strontium-90 activities of each sample are listed.

The main source of the flight data in Table 4.2 was the flight data cards supplied with the exposed filters by the detachments of the 4080th Strategic Reconnaissance Wing. These contained the forecast winds and temperatures for each sampling leg of each mission, together with the pilot's observations of time, latitude, longitude and altitude of commencement and termination of exposure of each filter. The indicated air speeds during the mission and any turbulence encountered were also noted. Additional information was obtained from film strips of the auxiliary observer panel of the aircraft. These were used to verify or modify exposure times and flight altitudes reported on the flight data cards.

The missions are arranged chronologically according to sampling date. The mission numbers which are given are generally those assigned by the Air Force, though they have frequently been modified to prevent two different mission numbers from being assigned to flights made on a single day

or a single number from being assigned to flights made on different days.

The most common modification has been the addition of A and B designations to missions flown a day apart from the two sampling bases. The sampling dates rather than the mission numbers have most commonly been used in working with the HASP data, both because of their greater intrinsic significance and because of the repetition of mission numbers, especially from Phases 1 and 2 to Phase 3 to Phase 4 and 5.

Data are given for several missions which were not regular HASP sampling missions. Test Hop 717 (14 Jan 1958) and Mission of Opportunity (10 June 1959) were flown to test equipment, while Special No. 1 (19 Mar 1958) and Special No. 2 (20 Nov 1958) were additional missions which supplied some samples for HASP. Minney 1 and 2 (6 Mar 1958) were flown in conjunction with a Project Ashcan balloon flight at Minneapolis to provide intercalibration samples. Sea Fish Special missions (14 Apr 1959, 21 Aug 1959, and 14 Oct 1959) were flown to the North Pole by B-52 aircraft to provide sampling of the polar region which was beyond the range of the Crowflight U-2 aircraft. Samples were also collected for HASP during North Flight (12 Sep 1958 - 2 Oct 1958 and 22-29 Apr 1959) and the May-June 1960 missions from Eielson (ANW Flights), Laughlin (LO Flights) and Ramey (RS Flights), which were flown in conjunction with Crowflight Phase 5 (ES Flights), though most of the sampling during these missions was performed for other government agencies.

The samples collected during each mission which is included in Table 4.2 are arranged in groups according to the aircraft that collected them.

The aircraft number is given in the first column of the table (except for some early missions from Laughlin and Ramey for which the aircraft number was

not supplied) together with two or more letters which indicate the base from which the aircraft operated and the region it sampled. Six U-2 aircraft were equipped with nose samplers. Three of these, No. 705, 714 and 715 were based at Ramey during Phases 2 and 3. The other three, No. 716, 717 and 718 were based at Plattsburg during Phase 2 and at Ezeiza during Phase 3. During Phase 4 aircraft No. 715, 716 and 717 were based at Minot and No. 705, 714 and 718 at Laughlin. During March 1960 when several of these aircraft were grounded for repairs, an additional U-2, No. 707, flew Crowflight missions, first from Minot and then from Laughlin. It was not equipped with a nose sampler so it collected only hatch samples. During Phase 5, aircraft No. 714, 715 and 716 were deployed to Ezeiza. Other U-2 aircraft were used by the Air Force to collect samples near Alaska during North Flight and during May-June 1960. The bases used by the U-2 aircraft included Laughlin (L), Ramey (R), Plattsburg (P), Ezeiza, (E), Minot (M), Eielson (A) and Minneapolis (M'P'L'S). Flights north from a base are designated, N, those south, S, and orbit flights, O. One flight east from Laughlin (29 Aug 57) was designated E, and flights northwest from Eielson in May-June 1960 were designated NW. Thus flights north from Plattsburg are labeled PN, south from Ramey, RS, from Ramey to Ezeiza, RE, from Plattsburg to Ramey, PR, and orbit missions at Minot, MO.

The HASP sample numbers, which are listed in the second column of Table 4.2, were assigned in sequence as the samples were received. Thus they are only approximately chronological with reference to sampling date.

The samples within each mission are grouped according to which aircraft collected them, as was mentioned above, and are listed in order of exposure.

When a nose and hatch sample were collected simultaneously the nose sample is listed first. All filters which were received were assigned a sample number.

Since some of these were forwarded to other laboratories and many others were malfunctions which were not analyzed, a number of samples are missing from the tables of data. The Air Force numbers which are given in the third column were stamped on the filters before exposure and were used by the Air Force detachments to designate the samples. They were not used at Isotopes, Inc. because of their complexity and because of the somewhat random order of use of the filters by the detachments.

The fourth column in the table contains a designation of the filter type, nose (N) or hatch (H), and the position of the filter within the sampler. The nose sampler carried four filters and the hatch sampler carried six. The hatch filters could only be exposed in sequence, number 1 through number 6, but the nose filters could be exposed out of sequence or could be exposed twice during a mission, and this happened occasionally.

The time, latitude, longitude and altitude at which the exposure of each filter was begun and ended are given in the fifth, sixth, seven and eighth columns, respectively. The times are Greenwich Mean Time, the latitudes in degrees and minutes north or south, the longitudes in degrees west and the altitudes in units of one thousand feet. When the path followed during an orbit mission was a circle or a square, only the midpoint or center of the figure described is given. Since most flights were along a meridian, except during Phase 4, only a single longitude is usually given. Similarly, since most flights were horizontal, only one altitude is usually given. When the aircraft turned during the collection of a sample and followed a new course, the time, latitude, longitude and altitude of the turning point, as well as those of the ends of the sampling seament, are given. The exposure times are given to the nearest minute and the altitudes to the nearest one hundred feet interval, but there is frequently more uncertainty than this in these measurements. The pilot's observations of time often differed by a minute or

two and sometimes by several minutes from the times indicated on the automatic observer ("AO") panel. Only late in the program was periodic recalibration of the aircraft altimeters called for, and then discrepencies of several hundred feet between the pilot's altimeter and that on the AO panel were found to be common. Nevertheless the time measurements may generally be considered to be accurate to within a minute and the pressure altitude data to within 500 feet.

The indicated air speed, in knots, during the collection of each sample is given in the ninth column. These are almost always those recorded by the pilot. In a few instances, where the values on the flight data card were obviously in error, the air speed which was normally scheduled for the altitude flown was substituted for that on the flight data card.

The air temperature, in degrees Kelvin, during the collection of each filter is given in the tenth column. These temperatures, taken from the flight data cards, were the forecast temperatures for the day of the mission and were not actually measured during the flight. The indicated air speed and temperature are given only because they must be used in the calculation of sample volumes.

The volume of air sampled by each filter is given, in units of one thousand standard cubic feet, in the eleventh column. The calculation of these data are described in detail in Chapter 3. Generally an attempt was made to collect 10,000 standard cubic feet or more to insure that there would be adequate activity on the filter for it to be readily measured. Because the air decreases in density toward higher altitudes longer exposure times were required at the higher altitudes than at the lower. As is discussed in Chapter 3, a hatch filter sampled about 2.5 times as much air as a nose filter for equal exposure times.

The total beta activity and strontium-90 activity, in disintegrations per minute per one thousand standard cubic feet of air, are given in the twelfth and thirteenth columns. These are included here only for the convenience of the reader since they are also given in Table 4.3.

Table 4.2 Flight Data for HASP Missions

C No.	HASP	Air Force	I 'lter	Time	Latitudo	Longitude	Altitude	LAS	Temp.	103	dpm/10 Total	
	No.	No.		(2)			(1000 ft.)	(Kt)	(*K)	SCF	Beta	sr ⁹⁰
Augu	st 1957	Mission i										
	3	W D625	N1	1456/1530	31:28N	100:27	46	164	203	12. 3	2,700	9
LO	4	WD626	N2	1542/1648	31:28N	100:27	56	150	208	15.1	22,000	53
	5	W D627	N3	1657/1845	34:28N	100; 27	62.5	129	213	15.9	26,000	126
	6	W D628	N4	1920/2209	31:28N	100:27	67, 2	110	216	16. 2	33,000	172
9 Augu	st 1957	Mission 2										
	7	WD645	N1	1602/1657	34:28N	104:05/97:06	56	150	205	12.8	19, 100	65
LE	8	WD646	N2	1659/1754	31:28N	96:51/89:40	56	150	206	12.7	17, 100	62
	9	WD647	N3	1755/1850	31:28N	89:32/82:27	56	150	207	12.7	16, 100	43
	10	WD648	N4	1851/1946	31:28N	82:19/75:50	56	150	207	12, 7	18,500	62
7 Septe	ember 19	57 Mission	3									
•••	11	WD649	Ni	1530/1621	28:22N/34:46N	100:27	56	150	202	12. 1	51,000	87
LN	12	WD650	NZ	1628/1723	34:53N/41:14N	100:27	56	150	207	12.7	21,000	9!
	13	WD651	N3	1724/1819	41:21N/47:40N	100:27	56	150	213	12.2	25,000	10
	14	WD652	N4	1820/1913	47:47N/54:30N	100:27	56	150	216	11.7	90,000	18
4 Octo	ber 1957	Mission 5									•	
	15	WD657	NI	1440/1503	31:28N	100:27	46	164	203	8, 2	840	
LO	16	WD658	N2	1512/1603	31:28N	100:27	56	150	206	11.8	67,000	10
	17	WD659	N3	1618/1750	34:28N	100:27	62	129	211	14.0	28,000	16
	18	WD660	N4	1805/2040	31:28N	100:27	66. 5	115	215	16.5	56, 000	19.
16 Octo	ber 1957	Mission 4										
	19	WD673	Ni	1414/1504	34:47N/28:43N	100:27	56/56.4	150	203	11.7	33,000	8
LS	20	WD674	N2	1513/1616	28:15N/21:58N	100:27/100:3		150	205	14.6	45,000	9
	21	W D675	N3	1616/1713	21:09N/15:13N	100:35/100:2		150	208	13. 1	22, 000	5
	22	W D676	N4	1714/1805	*14:53N/ 14:00N/19:05N	*100:25/ 100:25/100:0	56 0	150	208	11.7	12, 400	4
5 Nove	ember 1	957 Mission	13-A								•	
717	23	WPL501	N1	1240/1328	44:00N/49:26N	71;00	62/63	130	214	7. 1	2,500,000	82
PN	24	WPL502	N2	1329/1417	49: 33N/55:02N	71:00	63/63.5	124	218	6, 3	240,000	21
	25	WPL503	N3	1430/1506	56:31N/60:36N	71:00	53, 5/64, 5	120	220	4. 3	13, 300	12
	26	WPL504	N4	1507/1555	60:43N/66:10N		64.5/65	121	222	5, 6	11, 200	8
	27	WPL505	N1	1325/1414	44:00N/38:28N		64, 2/65	121	215	6.0	200,000	23
718		WPL506	N2	1414/1500	38: 21N/32: 48 N	71:00	65	120	212	5.6	147,000	23
718 PS	28			1503/1552	32:41N/27:16N	71:00	65	120	212	6.0	640,000	21
	29	WPL507	N3									
		WPL507 WPL508	N3 N4	1553/1627	27:12N/21:50N	71:00	64.5/65	122	207	4.4	193, 000	16
	29				27: 12N/21: 50N 16: 00N/23: 47N		64. 5/65 64. 2/65	121	207 211	4. 4 6. 0	193, 000 38, 000	
PS	29 30	WPL508	N4	1553/1627								16

^{*} Aircraft turned at 14:00N 100:25W to course of 360° continuing exposure of filter.

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	e Time	Latitude	Longitude	Altitude	ïAS	lemp,	103	dpm/1000 SC F	
U 110.	No.	No.		(Z)		(*)	(1000 ft.)	(Kt)	('K)	SCF	Beta	5r ⁹⁰
Nove	mber 195	7 Mission 1	13-B									
17	36	WPL513	N1	1240/1329	44:00N/49:24N	71:00	56	150	215	10.8	55,000	127
PN -	37	WPL514	N2	1330/1417	49: 33N/54:59N	71:00	• 56	150	217	10.3	104,000	173
	38	WPL515	N3	1418/1506	55:06N/60:33N	71:00	56	150	218	10.4	53,000	166
	39	WPL516	N4	1511/1544	61:08N/65:10N	71:00	56	150	225	6. 9	44,000	169
	40	WP501	N1	1327/1414	16:00N/21:34N	69:00	65	120	216	5.8	47,000	290
				1418/1506	21:48N/27:23N	69:00	65.3	118	213	5.6	64,000	16
RN	41	WP50Z	N2					120	212		66,000	151
	42	WP503	N3	1508/1557	27:37N/33:17N	69:00	65, 4			5.9		
	43	WP504	N4	1558/1645	33:31N/39:07N	69:00	65.5	120	213	5.6	390,000	29
	44	WP665	N1	1244/1330	16:00N/10:33N	69:00	65	120	209	5.8	34, 000	15
RS	45	WP666	NZ	1334/1421	10:19N/04:52N	69:00	65	121	207	5.9	38,000	24
-	46	WP667	N3	1424/1512	04: 38N/00: 49S	69:00	65	121	210	6.0	47,000	25
	47	WP668	N4	1514/1602	01:03S/06:30S	69:00	65	121	211	5, 9	43,000	90
2 Nove	mber 19	57 Minsion	4.4				-					
			_									
716	48	WPL517	N1	1243/1323	44: 24N/49:04N	71:00	53	156	219	10.1	45,000	11
PN	49	WPL518	N2	1329/1408	49:55N/54:35N	71:00	53	158	209	10, 5	35,000	16
	50	WPL519	N3	1415/1454	55:26N/60:06N	71:00	53	158	219	10.0	220,000	15
	51	WPL520	, N4	1506/1545	61:32N/66:12N	71:00	53	158	219	10.0	230,000	20
718	52	WPL521	N1	1325/1413	44:00N/38:30N	71:00	63.5/65.5	120	216	5.8	13, 500	10
PS	53	WPL522	N2	1414/1501	38:23N/32:53N	71:00	65.5	119	215	5.5	18,000	11
FS			N3	1503/1551	32:46N/27:11N		65.5/67	119	213	5. 5	26,000	20
	54 55	WPL523 WPL524	N3 N4	1552/1640	27:04N/21:29N	71:00	67/67.5	115	211	5.0	590,000	34
	56	WP673	Ni	1331/1424	16:00N/22:01N	69:00	63, 3	128	200	8. 1	410,000	32
RN	57	WP674	N2	1425/1513	22:08N/27:34N	69:00	63,7/64.7	125	206	6.6	260, 000	29
	58	WP675	N3	1514/1604	27: 41N/33: 30N	69:00	65	121	208	6.3	105,000	20
	59	WP676	N4	1605/1653	33:51N/39:35N	69:00	65	120	215	5.7	11, 200	12
	60	W.P677	N1	1247/1333	16:00N/10:20N	69:00	66.1/66.5	119	209	5. 4	101,000	20
RS	61	WP678	NZ	1334/1426	10:06N/04:24N	69:00	66.5/66.8	118	209	5. 9	36,000	22
RO	62	WP679	N3	1428/1516	04:10N/01:30S	69:00	66.8/67.5	118	209	5, 4	86,000	22
20 Nov	ember 19	957 Mission	<u>15</u>									
718	68	WPL529	N1	1606/1654	21:48N/27:10N	71:00	66.5/68	118	205	5, 5	32,000	13
PS	69	WPL530	N2	1655/1744	27:17N/32:42N	71:00	68,2/68,7	114	209	5.0	14, 900	1:
ra	70	WPL534	N3	1744/1832	32: 48N/38: 18N	71:00	68,8/69,4	110	210	4. 4	16, 300	12
	70	WPL531	N4	1833/1920	3B: 26N/44:59N	71:00	69, 3/70	109	211	4, 2	10, 900	1
			• • • •				·= · -					
	72	WP669	N1	1602/1650	39: 22N/33:46N	69:00	67/67.5	114	210	5.0	12, 500	4
RN	73	W P670	N2	1652/1740	33: 32N/27: 56N	69:00	67.5/68.Z	112	209	4. B	13, 100	10
	74	WP671	N3	1741/1830	27:42N/21:47N	69:00	68, 2/68, 5	110	210	4, 7	24,000	1
	75	WP672	N4	1831/1920	21:33N/16:00N	69.00	68.2/69	110	209	4, 6	18, 100	1
	76	WP685	N1	1539/1627	06:40 S/01:18 S	69:00	65/66.5	116	213	5, 2	49,000	3
		WP686	N2	1628/1716		69:00	66,5/67.7	114		4, 9	51,000	4
RS	77					69:00		112				3
	78	WP687	N3	1716/1804 1808/1856			67.6/67.7		212	4.7	25, 000 22, 000	2
	79	WP688	N4		10:28N/16:00N	69:00	67.7/68.5	110		4, 4		

Isotopes, Inc.

Table 1, 2 (continued)

AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS (Kt)	Temp.	10 ³ SCF	dpn:/10	5r ⁹⁰
Noven	nber 195		6	(2)		·····	(1000 (1.)	(22)	1 51	34.2	Beta	
17	84	WPL537	– Ni	1212/1239	45:23N/48:04N	71:00	47	162	223	8, 4	90, 000	137
PN	85	WPL538	N2	1304/1325	50:57N/53:39N	71:00	47	162	222	6, 5	230,000	258
	86	WPL539	N3	1357/1424	56:37N/59:21N	71:00	47	162	223	8.4	31,000	89
	87	WPL540	N4	1449/1515	62:13N/64:51N	71:00	47	162	223	8.0	40, 000	64
716	83	WPL536	N1	1246/1332	43:57N/38:35N	71:00	62/61.6	129	201	7.4	230,000	231
P S	82 81	WPL535 WPL534	N2 N3	1335/1421 1424/1510	38: 15N/33:00N 32: 40N/27: 20N		61.7/62.2 62.3/61.8	128 130	204 209	7. 2 7. 2	210,000 270,000	252 256
	80	WPL533	N4	1513/1600	27:00N/21:57N	71:00	62	130	218	7.0	200,000	258
	92	WP693	N1	1259/1345	16:11N/21:23N	69:00	62. 6/62. 9	130	208	7,0	162,000	264
RN	93	WP694	N2	1349/1435	21:51N/27:12N	69:00	62.8	130	206	7.0	159, 000	225
	94 95	WP695 WP696	N3 N4	1439/1526 1529/1614	27:40N/33:01N 33:30N/39:00N		62, 9/62, 8 62, 6/62, 8	130 130	205 218	7, 2 6, 6	230, 000 126, 000	284 238
RS	88 89	WP689 WP690	N1 N2	1210/1301 1302/1346	15:56N/10:35N 10:07N/04:46N	69:00 69:00	62 63.5	128 128	209 208	7.8 6.4	280,000 4,600,000	307 9 82
ND.	90	WP691	N3	1351/1441	04:18N/01:03S	69:00	64	128	207	7. 2	11,700,000	2333
	91	WP692	N4	1441/1526	01;318/06:528	69:00	62	128	207	6. 9	5,000,000	977
6 Nove	mber 19	57 Mission	17									
718	96	WPL541	 N1	1230/1250	45:48N/47:40N	71:00	44	158	222	6, 5	73, 000	79
PN	97	WPL542	N2	1328/1348	51:19N/53:21N	71:00	44	158	223	6, 5	198, 000	198
• • •	98	WPL543	N3	1424/1444	56:57N/59:04N	71:00	44	158	223	6.5	153, 000	207
	99	WPL544	N4	1548/1538	61:44N/63:50N	71:00	44	158	221	6, 5	172,000	215
716	100	WPL545	N1	1250/1338	44:00N/38:35N	71:00	59	138	211	8.7	147,000	172
PS	101	WPL546	N2	1339/1427	38:28N/32:35N	71:00	59	138	211	8, 7	180,000	260
	102 103	WPL547 WPL548	N3 N4	1428/1516 1517/1605	32:28N/26:59N 26:53N/21:23N	71:00 71:00	59 59	138 138	198 195	9, 5 9, 7	156, 000 136, 000	132 46
	104	WP681	N1	1257/1614	16:00N/37:32N	69:00	59.1	140	199	39.2	105, 000	80
RN	105	WP682	N2	1717/1812	32:03N/21:13N	69:00	59. 3/59. 1	140	198	11.0	168,000	81
	106	WP697	Ni	1210/1259	16:00N/10:20N	69:00	59.2/58.8	136	190	9. 9	113,000	60
RS	107	WP698	NZ	1300/1349	10:06N/04:26N	69:00	58.9/58.8	138	188	10.3	73, 000	86
	108	WP699	N3	1350/1438	04:12N/01:28 S	69:00	59/58.5	136	195	9. 5	101,000	81
3 Dece	mber 19	57 Mission	18-A									
717	110	WPL549	Ni	1155/1243	44:00N/49:40N	71:00	59	138	221	8.3	115,000	211
PN	111 112	WPL550 WPL551	N2 N3	1244/1332 1333/1421	49:47N/55:27N 55:34N/61:24N	71:00 71:00	59 59	138 138	221 221	8, 3 8, 3	89, 000 142, 000	167 164
	113	WPL552	N4	1422/1510	61:30N/67:15N	71:00	59	138	220	8.4	240,000	241
	117	WP733	N1	1259/1345	16:08N/21:26N	69:00	56.3	147	198	10.7	12, 400	20
RN	118	WP734	NZ	1349/1435	21:54N/27:12N	69:00	55.5	147	198	11.0	23, 000	21
	119 120	WP735 WP736	N3 N4	1439/1525	27:40N/32:58N	69:00	55.5	147	202	10.8	17, 800	3 1
				1529/1615	33:26N/38:44N	69:00	55	147	209	10.5	19, 100	36
-/R5	114	WP701	Ni	1211/1257	15:55N/10:37N	69:00/69:5	99 57	150	199	10.8	13, 300	18
14 Dece	mber i	57 Mission	18-B									
716	125	WPL557	N1	1151/1239	44:00N/49:20N	71:00	59	138	215	8.6	117,000	161
PN	126 127	WPL558 WPL559	NZ N3	1240/1328 1329/1417	49:27N/54:55N 55:02N/60:34N	71:00 71:00	59 59	138 138	215 216	8. 6 8. 6	155, 000 152, 000	25. 18
	128	WPL560	N4	1418/1505	60:41N/66:15N	71:00	59	138	217	8. 4	79, 000	19
718	121	WPL553	NÍ	1245/1331	44:00N/38:38N	71:00	56	150	215	10.2	169,000	20:
P5	122	WPL554	N2	1335/1421	38:11N/32:57N	71:00	56	152	205	11.0	116,000	160
	123 124	WPL555 WPL556	N3 N4	1424/1510 1516/1602	32; 37N/27:41N 27:00N/21:56N	71:00 71:00	56 56	154 157	204 201	11.3 11.8	45, 000 16, 600	6
RN	137 138	WP737 WP738	N1 N2	1259/1346 1347/1432	16:06N/21:15N 21:29N/26:51N	69:00 69:00	55.7/55.9 56.1/55.4	150 150	198 201	11. 5 10. 8	20,000 28,000	3
P.14	139	WP739	NZ N3	1435/1522	21:29N/26:51N 27:05N/32:35N	69:00	55. 9	150		11.2	48,000	8
	140	WP740	N4	1523/1608	32:49N/38:31N	69:00	55.7/56.1	150		10.6	97,000	16
•••	142	WP757	N1	1211/1257	15:52N/10:40N	69:00	55.7/55.2	150	197	11.4	8, 800	1
No.	143	WP758	N2	1300/1348	10:16N/04:44N	69:00	55.2/56	150	197	11.9	5, 200	1
	144	WP759	N3	1349/1521	04: 36N/07: 30 S	69:00	56	150	197	22.5	870	

Isotopes, Inc.

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Long itude	Altitude	IAS	Temp.	10 ³	dpm/10 Total	
	No.	No.		(Z)		(*W)	(1000 ft.)	(Kt)	(°K)	SCF	Beta	Sr ⁹⁰
Decem	ber 195	7 Mission i	9-A									
17/PN	129	WPL561	N1	1201/1248	44:13N/49:20N	71:00	56	150	216	10.3	167,000	265
18	133	WPL565	N1	1239/1318	43:38N/39:00N	71:00	53	157	213	10.2	95, 000	137
PS	134	WPL566	N2	1331/1410	37:50N/33:17N	71:00	53	157	209	10.4	78,000	102
	135 136	WPL567 WPL568	N3 N4	1422/1501 1515/1554	32:20N/27:23N 26:50N/22:12N	71:00 71:00	53 53	157 157	207 206	10.7 10.6	120,000 66,000	155 103
	145	WP761	Ni	1305/1345	16:34N/21:00N	69:00	53/52.7	157	196	11.5	6,800	4
RN	146	WP762	N2	1357/1436	22:22N/26:48N		52.8/52.7	158	206	10,8	37,000	68
	147 148	WP763 WP764	N3 N4	1447/1526 1617/1704	28:14N/32:40N 28:00N/22:28N	69:00 69:00	52.9/53.4 67/67.5	157 115	207 211	10.5 5.0	83, 000 · 52, 000	122 202
			_									
0 Januar		Mission 19						•				
717 PN	149 150	WPL581 WPL582	N1 N2	1202/1246 1251/1337	44: 14N/49: 17N 49: 47N/54: 52N	71:00 71:00	56 56	150 150	215 215	9, 7 10, 2	85, 000 98, 000	182 230
716	151	WPL589	N1	1241/1328	44:00N/38:36N	71:00	53	157	206	12, 8	73, 000	141
P8 •	152	WPL590	N2	1335/1420	37:50N/33:20N	71:00	53	156	213	11.6	70.000	165
	153	WPL591	N3	1424/1504	32:16N/27:47N	71:00	53	158	213	10.5	58,000	114
	154	WPL592	N4	1504/1522	27:40N/26:00N	71:00	53	157	203	5.0	35, 000	64
RN	15 5 156	WP781 WP782	N1 N2	1318/1357 1407/1447	16: 31N/21: 04N 22: 17N/26: 53N	69:00 69:00	50 50	157 157	200 203	11.9 12.0	4, 600 8, 900	≤ 8 37
	157	₩₽785	N1	1216/1304	15:29N/11:03N	69:00	53	157	197	13.7	1,670	4
RS	158	WP786	N2	1306/1345	09:48N/05:22N	69:00	53	157	196	11.2	210	4
	159	WP787	N3	1356/1435	04:08N/00:18 S	69:00	53	157	196	11.2	≤ 210	4
	160	WP788	N4	1446/1523	01: 33 8/05: 59 5	69:00	52.5	157	196	10.8	10, 800	. 11
i 4 Janua	ry 1958	Test Hop 7	17									
717 PO	161	WPL597	N1	1430/1456	44: 40N/41: 33N	71:00	50	160	212	7.6	68,000	81
PO	162 163	WPL598 WPL599	NZ N3	1506/1531 1541/1606	41:33N/44:40N 44:40N/41:33N	71:00 71:00	55 60	150 135	212 212	5.8 4.2	64, 000 105, 000	149 253
	164	WPL600	N4	1618/1643	41:35N/44:40N	71:00	65	121	212	3, 1	210,000	315
21 Janua	ry 1958	Mission 20	1									
716	169	WPL593	Ni	1204/1241	44; 30N/48: 57N	71:00	53	157	208	10.0	73,000	187
PN	170	WPL594	NZ	1253/1332	50:05N/54:34N	71:00	53	157	208	10.5	70,000	170
	171 172	WPL595 WPL596	N3 N4	1344/1420 1430/1509	55:44N/60:16N 61:13N/65:42N	71:00 71:00	53 53	157 157	207 201	9.7 10.9	86,000 71,000	224 162
718	165	WPL585	N1	1254/1324	42:57N/39:40N	71:00	49. 6	160	212	8. 9	49.000	96
PS	166	WPL586	N2	1346/1416	37: 12N/33: 53N	71:00	49.6	160	209	9. 1	4, 200	≤ 7
	167 168	WPL587 WPL588	N3 N4	1436/1506 1523/1554	31; 41N/28; 12N 26: 08N/22: 53N	71:00 71:00	50 50	160 160	210 207	8. 9 9. 3	3, 100 990	≤ ≥
- 	173	WP789	N4	2122/2152	14:56N/11:36N	69:00	51.1/50.1	160	194	9.4	1, 220	
R5	174	WP790	N2	2215/2245	09:13N/05:57N	69:00	50, 5/50. 5	162	197	9.7	480	
	175	WP791	N3	2307/2338	03:32N/00:18N	69:00	50, 2/50.3	162	197	10.0	≤ 350	
	176	WP792	N4	2359/2429	02:08 5/05:24 5	69:00	50/50.3	162	196	9. 8	≤ 240	
24 Janua	ry 1958	Mission 2	<u>1</u>					-				
717	177	WPL833	Ni	1305/1335	45:01N/48;22N	71:00	50	161	209	9.1	80,000	16
PN	178 179	WPL834 WPL835	N2 N3	1355/1425 1447/1516	50:39N/53:57N 56:18N/59:40N	71:00 71:00	50 50	160 160	212 213	8.8 8.5	67,000 115,000	14 25
	180	WPL836	N4	1535/1605	61:45N/65:08N	71:00	50	160	204	9. 2	200,000	37
718	181	WPL837	Ni	1350/1414	42:34N/40:08N	71:00	47	160	208	7. 9	98,000	20
P5	182	WPL838	N2	1447/1511	36:39N/34:25N	71:00	47	160	208	7. 9	4, 800	4
	183 184	WPL839 WPL840	N3 N4	1543/1609 1610/1634	30:09N/28: 32N 28: 12N/25: 44N	71:00 71:00	47 47	160 160	203 203	8. 7 8. 1	660 430	1
	185	WP797	Ni	1328/1352	14; 32N/12:00N	69:00	48. 4/48. 1	163	204	7. 9	1,880	٤.
R5	186	WP798	NZ	1421/1444	08:51N/06:19N	69:00	48.1/47.1	173	203	8.5	≤ 270	
	187	W 107 q q	N3	1511/1537	03.11N/00:39N	69:00	46.8/47.1	173		9.5	490	
	188	WP800	N4	1607/1631	02;31 S/05:01 S	69:00	47. Z/47. 4	173	202	9. 0	148	

Isotopes, Inc.

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	dpm/100	
	No.	No.		(Z)		(*W)	(1000 ft.)	(Et)	(*K)	SCF	Beta	Sr90
Janua	zy 1958	Mission 22										
16	189	WPL841	N1	1314/1339	45:30N/47:57N	71:00	47	162	224	7.7	54,000	132
N	190	WPL842	N2	1410/1434	51:08N/53:30N	71:00	47	161	223	7.4	50,000	13
	191	WPL843	N3	1507/1532	56:51N/59:11N	71:00	47	160	223	7, 6	61,000	170
	192	WPL844	N4	1603/1626	62:13N/64:38N	71:00	47	163	223	7.2	90,000	19
17	193	WPL849	N1	1422/1443	42:13N/40:27N	71:00	44. 3	167	226	7.3	74,000	19
S	194	WPL850	N2	1527/1547	36:27N/34:40N	71:00	44.3	166	223	6.9	17,000	4
	195	WPL851	N3	1630/1656	30:54N/29:06N	71:00	44	166	217	9.3	1, 480	≤ :
	196	WPL852	N4	1733/1753	25:24N/23:26N	71:00	44	164	208	7. 3	≤ 470	<
	213	WP813	N1	1121/1141	17:44N/19:38N	69:00	44	166	207	- 7.6	760	≥
N	214	WP814	N2	1215/1235	23:06N/25:00N	69:00	43.7	166	208	7.5	≤ 310	<u> </u>
	215	WP815	N3	1308/1328	28:57N/31:15N	69:00	44	166	217	7.2	1,600	≤ :
	216	WP816	N4	1359/1419	34:51N/37:04N	69:00	45	166	223	6.8	5, 600	2
	209	WP809	N1	1334/1354	14:23N/12:33N	69:00	44	166	205	7.6	1,660	≤
s	210	WP810	N2	1436/1456	08;54N/07:04N	69:00	44	166	205	7.6	≤ 600	≤
-	211	WP811	N3	1537/1557	03:29N/01:33N	69:00	44	166	205	7.8	≤ 290	~
	212	WP812	N4	1637/1657	01:58 S/03:58 S	69:00	44	166	205	7.6	≤ 300	ς.
			•••		2,000	• ,,		•			_ •••	
Febr	цату 195	8 Mission 2	3	•								
16	• 197	WPL865	Ni	1259/1348	43;54N/49:30N	• 71:00	55	155	225	11.2	42,000	16
N	198	WPL866	NZ	1349/1436	49:37N/55:07N	71:00	55	155	226	10.7	53, 000	18
	199	WPL867	N3	1437/1525	55: 14N/60: 43N	71:00	55	155	225	10.9	23, 000	12
	• 200	WPL868	N4	1526/4614	60:50N/66:33N	71:00	55	155	225	10.9	72,000	21
	221	WP897	N1	0959/1128	16:00N/26:22N	69:00	56/65.2	121	205	11.7	48,000	21
lN.	222	WP898	N2	1131/1301	26:34N/36:56N	69:00	64,8/65.3	118	216	10, 2	70,000	. 23
	223	WP899	N3	1309/1439	36.56N/26:34N	69:00	64.3/68	121	216	10.4	110,000	34
	224	WP900	N4	1441/1611	26:22N/16:00N	69:00	67.7/69.4	112	213	8.7	112,000	42
	217	WP893	N1	0910/0958	16:00N/10:30N	69:00	55	155	198	12.7	4,000	
RS	218	WP894	N2	0959/1047	10; 24N/04; 49N	69:00	55	155	197	12.7	≤ 180	<
	219	WP895	N3	1048/1136	04:41N/01:09S	69:00	55	155	197	12.7	≤ 180	<
	220	WP896	N4	1138/1226	01:00 8/06:32 8	69:00	55	155	197	12,7	≤ 180	<
Feb	ruary 19	58 Mission :	24								•	
						*			22.1		** 0.5	
117	205	WPL877	N1	1256/1344	44:00N/49:52N	71:00	54.7	155	224	11.0	35,000	27
PN	206	WPL878	N2	1345/1434	49:59N/54:59N	71:00	55	155	227	11,0	36, 000	2:
	207 208	WPL879 WPL880	N3 N4	1435/1523 1524/1611	55:06N/60:58N 64:05N/66:50N	71:00 71:00	54. 9 54. 9	155 155	226 225	11.0 10.7	34, 000 24, 000	11
716	201	WPL873	N4	1345/1432	44:00N/38:40N	71:00	55	155	221	10.9	29,000	1
PS	202	WPL874 .	N2	1433/1536	38: 33N/31: 38N	71:00	55	155	216	15.0	9, 600	1
	203	WPL875	N3	1537/1611	31:31N/27:41N	71:00	55	155	217	8. 2	3, 400	
	204	WPL876	N4	1612/1626	27: 34N/26: 10N	71:00	55, 5	155	209	, 3.4	2, 000	*5
	229	WP905	N1	1311/1359	16:02N/10:42N	69:00	55. 1	155	205	12.0	3, 200	_
RS	230	WP906	N2	1400/1448	10: 33N/05: 13N	69:00	55	155	205	12. 1	≤ 290	5
	231 232	WP907 WP908	N3 N4	1449/1537 1539/1627	05:04N/00:33S 00:42S/05:44S	69:00 69:00	55 55, 2	155 155	204 204	12. 2 12. 2	≤ 280 ≤ 280	<
												2
	225	WP901	N1	1355/1531	16:00N/04:58N	69:00	57.2/67	120	195	13.0	47,000	
RS	226	WP902	N2	1533/1709	04:44N/06:20S	69:00	67/6B	115	203	10.7	250, 000	7
	227	WP903	N3	1717/1853	06:208/04:44N	69:00	67.7/70.2		204	9.4	380,000	11
	228	WP904	N4	1855/2030	04:58N/16:00N	69:00	70.2/71	106	202	8.3	330,000	10

Table 4.2 (continued)

LC No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	LAS	Temp.	10 ³	dym/1006 SCF Total	
	No.	No.	* 11101	(Z)		(*W)	(1000 ft.)	(Kt)	('K)	SCF	Beta	Sr90
Febru	ary 1958	Mission 25	<u>i_</u>									
	222	tites con			B							
718 PO	237 238	WP1.897 WPL898	N1 N2	1416/1437 1440/1500	44: 40N	73:30 73:30	55 55	155 155	217 217	5.0	27,000	194
	239	WPL899	N2 N3	1505/1527	。 44: 40N 44: 40N	73:30	50	160	218	4. 7 6. 3	27,000 7,100	224
	240	WPL900	N4	1529/1549	44: 40N	73:30	50	160	218	5. 7	7, 200	48 45
				,,,,							., 200	***
716	233	WPL889	Ni ·	1339/1427	44:00N/38:16N	71:00	55.5	155	217	11, 3	33,000	194
PS	234	WPL890	N2	1428/1516	38:09N/32:36N	71:00	55	155	213	11.6	26,000	176
	235	WPL891	N3	1517/1605	32:29N/26:54N	71:00	55/55.5	155	208	11.8	11, 100	81
	236	WPL892	N4	1606/1652	26:47N/21:31N	71:00	55. 5/55	155	203	11.8	1,270	5
	263	WP917	Ni	1402/1538	16:00N/27:02N	69:00	58/67.2	118	206	11, 3	18,700	15:
RN	264	WP918	N2	1540/1716	27:16N/38:18N	69:00	67/67.4	114	212	10.0	3, 200	64
	266	WP920	N4	1902/2036	27:02N/16:00N	69:00	70/71	106	208	8.0	50,000	238
6 Fabr	umiry 195	8 Mission 2	4									
			_									
718 PO	249 250	WPL953 WPL954	N1 N2	1417/1438	44:40N	73:30	45	160	210	7.2	22,000	135
PU	250 251	WPL954 WPL955	NZ N3	1438/1458	44: 40N 44: 40N	73:30	45 40	160 160	210 211	6.9	31,000	172
	25Z	WPL955 WPL956	N3 N4	1502/1522 1523/1543	44: 40N 44: 40N	73: 30 73: 30	40 40	160	211	7.8 7.8	11,600 8,100	54 50
	~~~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	14.2	/ 17-23	22/2014	. 3, 30	10	100		1.0	0, 100	50
.716	245	WPL949	N1	1303/1351	43:40N/38:46N	71:00	45	165	211	17.1	23,000	132
PS	246	WPL950	N2	1358/1446	37:55N/33:13N	71:00	45.5	165	203	17.6	13, 200	88
	247	WPL951	N3	1453/1541	32:25N/27:46N	71:00	45	165	205	17.6	4,600	26
	248	WPL952	N4	1547/1635	26;57N/21:58N	71:00	45	165	208	17.4	< 330	1
717	241	WPL945	N1	1345/1434	44:00N/38:24N	71:00	55	155	209	12.2	18,700	146
PS	242	WPL946	N2	1435/1523	38:17N/32:47N	71:00	55	155	205	12.1	11,900	85
	243	WPL947	N3	1526/1613	32:40N/27:03N	71:00	55	158	201	12.5	7,400	52
	244	WPL948	N4	1615/1703	26:56N/21:15N	71:00	55	158	198	13.0	1,770	30
-/RN	274	WP512	N4	1626/1714	32:43N/38:00N	69:00	59	135	203	8.9	14, 800	91
	267	W P505	N1	1314/1402	16:05N/21:30N	69:00	64, 5	121	206	6, 2	23,000	128
RN	268	WP506	N2	1402/1452	21:37N/27:03N	69:00	65	121	206	6.4	19,000	146
	269	W ₽507	N3	1453/1539	27:10N/32:36N	69:00	65	121	210	5.8	16, 400	77
	270	W P508	N4	1541/1629	32:43N/38:00N	69:00	65	121	212	5.9	13, 300	101
i Mar	ch 1958	Mission 27										
718	258	WPL906	N1	1300/1348	44:00N/49:30N	71:00	55/54.8	155	218	11.3	11,200	77
PN	259	WPL907	N2	1350/1437	49: 37N/55: 07N	71:00	54,8/54.7	155	220	11.1	14,400	10
	260	WPL908	N3	1438/1530	55:14N/61:19N	71:00	54.7/54.9	155	225	11,9	25,000	222
	257	WPL905	N4	1530/1621	61:26N/66:56N	71:00	55	155	228	11,4	25,000	217
717	253	WPL901	Ni	1345/1433	44:00N/38:35N	71:00	55	155	214	11.6	.1, 200	7:
Pb	254	WPL.902	N2	1435/1523	38:21N/32:56N	71:00	55	155	208	12.0	3, 300	2
	255	WP1.903	N3	1525/1615	32:42N/27:17N	71:00	55	155	201	13,0	< 620	≤ .
	256	WPL904	N4	1617/1705	27:03N/21:33N	71:00	55	155	198	12.7	< 450	<
	335	WP921	Ni	1359/1535	16:00N/26:41N	69:00	57.5/67.1	118	209	11.1	16, 900	16
RN	336	WP922	N2	1537/1713	26:55N/37:36N	69:00	67.2/68	113		10.0	6, 900	10
	337	WP923	N3	1721/1857	37:36N/26:24N	69:00	67/69,4	111	207	9, 5	2,700	5
	338	W1924	N4	1859/2034	26:10N/15:18N	69:00	69.4/70.2	107	208	8, 3	9, 300	10
	331	WP517	Ni	1310/1359	16:02N/10:30N	69:00	55/54.2	155	197	13.1	4 440	
RS	332	WP518	N1 N3	1448/1536	04:41N/00:51 S	69:00	54.5	155	197	13.1	1,410 620	
RO			N4	1633/1728								
	333	WP519			06:32 S/01:00 S	69:00	54.5	155	196	14.9	230	

isotopes, Inc.

### Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	1	Altitude	IAS	Temp.	103	dpm/1000 SCF	
. 140,	No.	No.	ruter	(Z)	remine	Longitude (*W)	(1000 ft.)	(Kt)	(°K)	SCF	Beta	Sr ⁹⁰
March	1958	Mission 28										
18	279	WPL609	N1	1300/1348	44;00N/49:45N	71:00	55	155	221	11.2	17, 500	149
PN	280	WPL610	N2	1349/1445	49:52N/55:22N	71:00	55	158	222	13.3	17, 100	149
	281	WPL611	N3	1445/1531	55:29N/60:53N	71:00	55	155	223	10.6	21,000	182
	282	WPL612	N4	1531/1615	61:00N/66:31N	71:00	55	155	225	10.0	28,000	210
717	275	WPL605	N1	1345/1433	44:00N/38:42N	71:00	55	150	217	10.8	18, 700	164
PS	276	WPL606	N2 N3	1434/1522	38: 35N/33: 17N	71:00	55	155 155	208 201	12.0	15, 100	145
	277 278	WPL607 WPL608	N3 N4	1523/1611 1612/1700	33:10N/27:52N 27:45N/	71:00 71:00	54.5 54.5/54.7	155	201 197	12.6 12.9	3, 400 < 900	23
	210	WPLOOG	144	1812/1100	25:15N/27:45N	71;00	34, 3/ 34, (	133	171	14. 7	\ <del>700</del>	·
	343	WP524	N1	1353/1532	16:00N/04:58N	69:00	54, 9/67, 3	118	196	12.5	37,000	221
RS	344	WP522	N2	1532/1706	04:44N/06:18S	69:00	67, 2/68	113	207	9.7	44,000	252
	345	WP523	N3	1717/1853	06: 18 S/04: 44N	69:00	67.7/69.3	112	208	9.4	59,000	282
	346	WP524	N4	1855/2032	04:58N/16:00N	69:00	69.2/70.1	108	209	8.6	81,000	406
6 Marc	h 1958	Mission Min	ney 1 an	d 2								
717	283	WPL613	Ni	1438/1506	45:00N	93:00	49.8/47.2	160	217	8.6	19, 900	138
M'P'L'S	284	WPL614	N2	1510/1542	45:00N	93:00	47.7/47.6	160	217	9.6	22,000	123
0	285	WPL615	N3	1544/1617	45:00N	93:00	47.6/48.4	160	217	9. 9	21,000	127
	286	WPL616	N4	1619/1649	45:00N	93:00	48.6/19	160	217	9.2	19, 200	111
718	287	WPL617	N1	1458/1535	45:00N	93:00	55/55.2	150	218	8,4	18,500	16
M'P'L'S		WPL618	N2	1538/1612	45:00N	93:00	55, 2/55, 8	150	218	7.6	15, 800	155
O	289	WPL619	N3	1612/1642	45:00N	93:00	55.8/55.2	150	218	6.7	17,000	139
	290	WPL620	N4	1643/1712	45:00N	93:00	55, 1/54, 5	150	218	6.5	18, 800	151
11 Marc	h 1958	Mission 29				_						
718	295	WPL625	Ni	1259/1347	44:00N/49:40N	71:00	55	155	221	11, 2	16, 800	12
PN	296	WPL626	NZ	1348/1436	49:47N/55:27N	74:00	55	155	220	11, 3	16, 300	114
	297 298	WPL627 WPL628	N3 N4	1437/1525 1526/1613	55:34N/61:10N 61:17N/66:53N	71:00 71:00	55 54. 8/55	156 155	220 218	11, 3	16, 900 16, <b>4</b> 00	13:
						· ·				-		
717	291	WPL621	Ni	1420/1509	44:30N/38:48N	71:00	55	155	220	11,5	15, 400	13
PS	292	WPL622	N2	1510/1550	38; 33N/32; 47N	71:00	55	155	209	9.9	16, 800	11
	293 294	WPL623 WPL624	N3 N4	1353/1647 1648/1735	32:40N/26:54N 26:47N/21:01N	71:00 71:00	55 55	155 155	208 201	13,5 12,2	5, <b>4</b> 00 1, 790	3 2
											1,770	
•••	311	WP525	Nt	1359/1534	16:00N/27:02N	69:00	55/67.5	118	203	11.5		11
RN	312	WP526	NZ	1537/1717	27:16N/38:18N	69:00	67.5/68	113	210	10, 2		18
	313 314	WP527 WP528	N3 N4	1725/1859 1901/2042	38:18N/27:16N 27:02N/16:00N	69:00 69:00	68/69.5 69.5/70.5	111 108	210 210	9. 0 9. 8	28, 000 29, 000	•27 23
18 Mare	-L 4060	Mission 20										
		· · · · · · · · · · · · · · · · · · ·										
716	299	WFL629	N1	1305/1353	43:29N/38:41N	71:00 71:00	45/45,5	165	218	16,6	560,000	37
PS	300 301	WPL630 WPL631	NZ N3	1401/1449 1457/1546	37:53N/33:05N 32:17N/27:29N	71:00	45.5/45 45/45.5	163 165		16, 7 17, 7	13, 700 8, 600	8
	302		N4	1553/1640	26:47N/21:59N	71:00	16/45	162		16.0	720	7
718	30 3	WPL633	N1	1346/1434	43:46N/38:22N	71:00	55/55.5	155	219	11.2	15, 800	12
PS	304		NZ	1440/1528	37:55N/32:31N	71:00	55, 5/55	155		11,6	10,600	٤
	305		N3	1531/1618	32:04N/26:52N	71:00	55	155		12.0	8, 200	6
	306		N4	1622/1710	26;26N/21;24N	71:00	54. 9/55	155	201	12. 4	3, 100	1
	319		N1	1358/1446	16:00N/21:27N	69:00	60	1 3 5		8.7	7, 100	
RN	320		N2	1447/1535	21:34N/27:01N	69:00	60	135		8.7	11, 300	12
	321		N3	1536/1624	27:08N/32:35N	69:00	60	135		8.2	15, 100	1:
	322		N4	1625/1713	32:42N/38:08N	69:00	60	135	211	8, 2	15,000	10
	315		N1	1313/1401	16:00N/21:27N	69,00	64.5	121		6. 1	26, 000	2
RN	316		N2	1402/1450	21: 34N/27:01N	69:00	65	121		5.9	23,000	11
	317		N3	1451/1538	27:U8N/32:35N	69:00	65	121		5, 7	22,000	11
	318	WP612	N4	1540/1627	32: 42N/38:08N	69:00	65	121	219	5.6	18, 200	2

lactopes, Inc.

Table 4, 2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	dpm/10 Total	
	No.	No.		(Z)		("W)	(1000 ft.)	(Kt)	(*K)	SCF	Beta	Sr 30
Marc	h 1958	Special No. 1	_									
716	323	WPL637	N1	1405/1425	42:30N	71:00	40	170	223	8. 1	26,000	136
Ω°	324	WPL638	112	1441/1502	42:30N	71:00	45	165	218	7.2	11, 400	95
	325	WPL639	N3	1514/1534	42:30N	71:00	50	160	218	5, 7	16, 900	112
	326	WPL640	N4	1555/1615	42:30N	71:00	45.5	165	216	6. 9	11,000	88
5 Marc	h 1958	Mission 31										
716	327	WPL645	N1	1346/1434	43:53N/38;11N	71:00	60	135	220	7.8	230,000	211
PS .		WPL646	N2	1436/1524	38:04N/32:33N	71:00	60	135	216	8, 0	610,000	405
	329 330	WPL647 WPL648	N3 N4	1526/1612 1616/1704	32:20N/26:49N 26:35N/21:04N	71:00 71:00	60 60	135 135	213 205	7.8 8.5	1, 110, 000	865 285
	330	WPLO70	IV-E	1010/1/04	740:22/MEC:02	71:00	60	135	205	0.5	260, 000	485
718	355	WPL641	N1	1346/1434	43:53N/38:11N	71:00	60	• 135	220	7.8	192,000	229
PS	356	WPL642	N2	1436/1524	38:04N/32:33N	71:00	60	135	216	8.0	630,000	398
	357 358	WPL643 WPL644	N3 N4	1526/1613 1616/1704	32:20N/26:49N 26:35N/21:04N	71:00 71:00	60 60	135 135	213 205	8. D 8. 5	1,070,000 240,000	699 321
	338	WPL544	Na	1818/1704	20: 35N/21:U4N	(1:00	bu	135	205	6. 5	240,000	361
••	347	WP605	N1	1358/1446	16:00N/21:32N	69:00	65	121	211	5. 9	18, 800	193
RN	348 349	WP606 WP607	N2 N3	1447/1535 1536/1624	21: 39N/27: 11N 27: 18N/32: 50N	69:00 69:00	65 65	121	213 216	5. 9 5. B	21, 000 28, 000	178
	350	W 1-608	N4	1625/1713	32:57N/38:29N	69:00	65	121	216	5. B	28, 000	216
•••	351	WP617	N1	1358/1446	16:00N/21:32N	69:00	65	121	211	5, 9	15, 100	143
RN	352 353	WP618 WP619	NZ N3	1447/1535 1536/1624	21: 39N/27: 11N 27: 18N/32: 50N	69:00 69:00	65 65	121	213 216	5, 9 5, 8	22, 000 48, 000	203 199
	354	WP620	N4	1625/1713	32:57N/38:29N	69:00	65	121	216	5, 8	31,000	21
A Marc	ch 1958	Mission 33		•								
717	359	WPL657	N1	1300/1349	44:00N/49:34N	71:00	55	155	220	11.5	280,000	26
PN	360 361	WPL658 WPL659	N2 N3	1349/1437 1439/1528	49:41N/55:11N 55:25N/60:51N	71:00 71:00	55 55	155 155	220 220	11.2	610, 000 590, 000	• 45°
718	363	WPL957	N1	1420/1509	21:27N/26:57N	71:00	55,7/53,7	155	207	12. 3	29, 000	2:
P5	364	WPL958	N2	1509/1557	27:04N/32:34N	71:00	53.7/54.6	155	210	12. 2	66,000	8
• •	365	WPL959	N3	1558/1646	32: 42N/38: 12N	71:00	54.7/55	155	216	11.5	13, 800	9
	366	WPL960	N4	1647/1733	38:20N/43:50N	71:00	55	155	220	10.8	13, 900	8
	367	WP621	N1	1359/1537	16:00N/27:02N	69:00	56,9/66.2	118	210	11. 3	18,000	10
RN	368	WP622	N2	1539/1715	27:16N/38:18N	69:00	66.3/67.1	118	213	10.8	31,000	16
	369	WP623	N3	1723/1900	38:18N/27:16N	69:00	66,8/68.2	115	213	10.0	26,000	15
	370	WP624 *	N4	1902/2038	27:02N/16:00N	69:00	68, 3/70, 2	112	210	9. 2	40, 000	24
	371	WP625	N1	1310/1359	16:00N/10:30N	69:00	55, 6/54, 2	155	193	13. 1	≤ 440	
RS	372 373	WP626 WP627	N2 N3	1359/1447 1448/1537	10:21N/04:49N 04:41N/01:095	69:00 69:00	55 55	155 155	205 205	12. 1 12. 3	≤ 480 ≤ 470	
	374	WP628	N4	1538/1626	01:00 8/04: 32 5	69:00	55	155	205	12. 1	£ 480	
4 4 9 9	11 1958	Mission 32										
/16	375	WPL669	N1	1253/1446	44:00N/56:01N	71:00	55, 4/64, 6	151	220	14. 3	95, 000	20
PN	376 377	WPL670 WPL671	N2 N3	1447/1630 1632/1832	56:08N/68:09N 68:14N/56:09N	71:00 71:00	64.5/65 65	121	217 217	12. 4 14. 4	26, 000 14, 20 <b>0</b>	7
	178	WPL672	N4	1833/2004	56:02N/44:00N	71:00	65	121	220	10.7	84, 000	17
718	379	WPL681	N1	1344/1529	44:00N/32:06N	71:00	61,8/64.9	121	220	12.8	155,000	21
128	380	WPL682	142	1530/1715	31:59N/20:05N	71:00	65	121	213	12.8	186,000	27
	381	WPL683	N3	1715/1900	20:00N/31:53N	71:00	65 65	121	213 220	12. 8	140,000	Z
	382	WPL684	N4	1901/2046	32:00N/44:00N	71:00	65	141	220	12. 3	165,000	1
	383	WP633	NI	1359/1535	16:00N/27:02N	69:00	64/64.5	122		12.5	60.000	1
RN	384	WP634	N2	1537/1713	27:16N/38:18N	69:00	64.5	122		11. 9	300.000	2
	385	WP635	N3 N4	1721/1857	38:18N/27:16N	69:00	64/65	121		11,7	236,000	2
	386	WP636	•••	1859/2035	27:02N/16:00N	69:00	65	121		12.0	61.000	1
• • •	387	WP641	N1	1308/1446	16:00N/04:58N	69:00	64.8/64.5	121		12.6	16,500	5
	388	WP642	N2	1448/1624	04:49N/06:18 S	69:00	64, 4/65, 1	121	201	12. 7	22,000	1
RS	389	WP643	N3	1632/1808	06:18 S/04:44N	69:00	64. 8/65. Z			12. 6	24,000	t

Isotopes, Inc.

Table 4.2 (continued)

No.   No.   (2)	C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	dpm/100	
176	C 140.			FILLET		Detitude							Sr ⁹⁰
RS 396 WPLT26 N2 1357/1444 38.2381/33.141N 74:00 45.5/45 165 247 16.6 109,000 398 WPLT28 N4 41537/1623 27:0787/21:35N 71:00 45 165 243 17.0 16.300 NPS 398 WPLT28 N4 41537/1623 27:0787/21:35N 71:00 45 165 243 17.0 16.300 NPS 399 WPLT28 N1 14 1548/4324 44:08.182.00 71:00 55/4.7 155 249 14.3 19.000 NPS 399 WPLT29 N3 1523/1642 32:2381/32.20N 71:00 55/4.7 155 249 14.3 19.000 NPS 399 WPLT29 N3 1523/1642 32:2381/32.20N 71:00 55/4.5 156 205 12.6 2.000 NPS 399 WPLT29 N4 1612/1700 26.3381/32.50N 71:00 54.7 75.5 156 205 12.6 2.000 NPS 399 WPLT29 N4 1612/1700 26.3381/32.50N 71:00 54.7 75.5 156 205 12.6 2.000 NPS 399 WPLT29 N4 1612/1700 26.3381/32.50N 71:00 54.7 75.5 156 205 12.6 2.000 NPS 399 WPLT29 N4 1612/1700 26.3381/32.50N 71:00 54.7 75.5 156 205 12.6 2.000 NPS 399 WPLT29 N4 1513/4143 16:00N/21:18N 69:00 60 135 198 10.2 188,000 NPS 399 WPLT29 N5 N3 1536/1624 26:68N/32:00N 69:00 60 135 198 10.2 188,000 NPS 399 WPLT29 N1 1313/4400 16:05N/32:00N 69:00 60 135 205 7.5 990.000 NPS 399 WPLT29 N1 1313/4400 16:05N/32:00N 69:00 60 135 205 7.5 990.000 NPS 399 WPLT29 N1 1313/4400 16:05N/32:00N 69:00 65 121 214 15.8 15.60 15.000 NPS 399 WPLT29 N1 1346/1450 21:378/371:0N 69:00 65 121 214 15.8 15.60 15.000 NPS 399 WPLT29 N1 1346/1450 21:378/371:0N 69:00 65 121 214 15.6 55.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 69:00 65 121 214 215 5.6 155.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 69:00 65 121 215 5.6 155.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 155 226 11.0 26.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 155 226 11.0 26.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 155 226 11.0 26.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 155 226 11.0 146.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 155 226 11.0 146.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 155 226 11.0 146.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 155 226 11.0 146.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 155 226 11.0 146.000 NPS 399 WPLT29 N1 1346/1457 32:38N/38:0NN 71:00 55 15	April	1958 1	Mission 34										
PB 396 WPL726 N2 1353/1444 38.2381/33.141N 71:00 45 155 247 16.6 109,000 393 WPL7278 N4 41537/1629 27:0787/21:398 71:00 45 165 243 17.0 16.300 N2 165 243 17.0 1	748	305	WD1.725	N∤	1301/1350	43.52M/38.40M	24.00	45/45 5	465	220	46.6	406 000	174
397 WPLI27 N3 1445/4533 32.448N/27138N 74:00 45 155 221 17.6 980  716 394 WPL128 N1 1356/452 32:018N/33:08N 74:00 45.5 155 220 17.6 980  716 394 WPL128 N1 1445/452 38:118/33:08N 74:00 54.7 155 249 14.3 139,000  393 WPL129 N3 1522/1612 32:23N/226:08N 74:00 54.7 155 249 14.3 139,000  394 WPL120 N1 1522/1612 32:23N/226:08N 74:00 54.7 155 249 14.6 330,000  394 WPL120 N1 1522/1612 32:23N/226:08N 74:00 4.7/54.5 156 205 12.6 250,000  403 WP553 N1 1358/1453 16:00N/21:18N 69:00 6.0 135 198 10.2 188,000  RN 404 WP556 N2 1453/1453 12:23N/226:58N 69:00 6.0 135 205 7.5 930,000  406 WP556 N2 1453/1453 12:23N/226:58N 69:00 6.0 135 205 7.5 930,000  397 WPL49 N1 1313/4400 16:05N/21:38N 69:00 6.0 135 205 7.5 930,000  403 WP550 N2 1404/450 12:33N/31:08N 69:00 6.0 135 205 7.5 930,000  403 WP552 N2 1404/450 12:33N/31:08N 69:00 6.0 135 205 7.5 930,000  406 WP556 N4 1623/1713 32:07N/37:16N 69:00 6.0 135 205 7.5 930,000  406 WP550 N2 1404/450 12:33N/37:08N 69:00 6.0 135 221 7.8 140,000  406 WP552 N4 1546/1627 32:43N/36:08N 69:00 6.5 121 21 21 5.8 15,600  RN 400 WP552 N4 1546/1627 32:43N/36:08N 69:00 6.5 121 21 21 5.8 15,600  407 WP1233 N4 1336/1437 44:08N/32:38N 69:00 6.5 121 21 208 6.2 17,600  408 WP123 N3 1454/1435 34:43N/36:08N 69:00 6.5 121 21 208 6.2 17,600  419 WP123 N3 1434/1437 44:08N/32:38N 71:00 5.5 121 21 21 5.6 55,000  419 WP123 N3 1434/1437 44:08N/32:38N 71:00 5.5 125 225 11.0 2.0 000  410 WP136 N4 1226/1617 32:43N/36:08N 71:00 5.5 155 226 11.0 26.000  410 WP136 N4 1226/1617 33:28N/36:08N 71:00 5.5 155 226 11.0 26.000  410 WP137 N3 1445/1623 33:28N/36:08N 71:00 5.5 155 226 11.0 26.000  410 WP136 N4 1226/1617 33:28N/36:08N 71:00 5.5 155 226 11.0 26.000  410 WP136 N4 1226/1617 33:28N/36:08N 71:00 5.5 155 226 11.0 26.000  410 WP136 N4 1226/1617 33:28N/36:08N 71:00 5.5 155 226 11.0 26.000  410 WP136 N4 1226/1617 33:28N/36:08N 71:00 5.5 155 226 11.0 26.000  410 WP136 N4 1226/1617 33:28N/36:08N 71:00 5.5 155 226 11.0 26.000  410 WP136 N4 1226/1617 3													219
716 398 WPL728 N4 1537/1625 Z7:0TN/Z1:55N 71:00 45. 155 240 17.6 980 716 394 WPL717 N1 1545/433 44:00N/38:20N 71:00 55/4.7 155 241 11.1 13.000 PS 392 WPL718 N3 1523/4412 33:21N/32:50N 71:00 55/54.7 155 241 41.6 130.000 PS 392 WPL718 N3 1523/4412 33:21N/32:50N 71:00 54.7 155 241 41.6 230.000 PS 4WPL7120 N4 1512/7400 26:31N/32:50N 71:00 54.7 155 216 205 12.6 250.000 PS 4WPL7120 N4 1512/7400 26:31N/32:50N 71:00 54.7 155 177 200 12.9 40.000 PS 405 WP55 N3 1536/1624 26:46N/32:63N 69:00 50 135 205 12. 6 20. 12. 9 40.000 PS 405 WP55 N3 1536/1624 26:46N/32:63N 69:00 50 135 205 8.3 159,000 PS 406 WP55 N3 1536/1624 26:46N/32:09N 69:00 50 135 205 8.3 159,000 PS 406 WP55 N3 1536/1624 26:46N/32:09N 69:00 50 135 205 8.3 159,000 PS 406 WP55 N3 1536/1624 26:46N/32:09N 69:00 50 135 205 8.3 159,000 PS 407 WP57 N3 1436/1624 26:46N/32:09N 69:00 50 135 205 8.3 159,000 PS 406 WP55 N3 1536/1624 26:46N/32:09N 69:00 50 135 205 8.3 159,000 PS 407 WP57 N3 1456/1627 32:43N/33:09N 69:00 55 121 213 5.9 15,60 150 150 150 150 150 150 150 150 150 15													77
PS 392 WPL718 N2 1434/1522 38-13N/32:30N 72:00 54.7 155 244 11.6 320.000 394 WPL720 N3 1523/1612 32:32N/26:40N 72:100 54.5 157 200 12.9 40.000 394 WPL720 N4 1612/1700 26:33N/26:50N 72:00 54.5 157 200 12.9 40.000 RN 404 WP553 N1 1358/1463 16:00N/21:18N 69:00 60 135 198 10.2 188.000 400 WP556 N2 1453/1253 24:28N/26:3NN 69:00 60 135 200 8.7 5 930.000 400 WP556 N2 1453/1253 24:28N/26:3NN 69:00 60 135 200 8.7 5 930.000 400 WP556 N2 1536/1624 26:46N/32:00N 69:00 60 135 200 8.8 159,000 400 WP556 N2 1604/1450 22:19N/26:3NN 69:00 65 121 211 5.8 15,600 400 WP556 N2 1404/1450 22:19N/27:10N 69:00 65 121 211 5.8 15,600 400 WP556 N2 1404/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 402 WP552 N4 1540/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 402 WP552 N4 1540/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 402 WP552 N4 1540/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 402 WP552 N4 1540/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 400 WP550 N4 1540/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 400 WP505 N4 1540/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 400 WP505 N4 1540/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 400 WP505 N4 1540/1450 22:19N/27:0NN 69:00 65 121 213 5.9 16.500 400 WP505 N4 1540/1450 22:19N/27:0NN 71:00 55 155 226 11.0 67.000 400 WP505 N5													5
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425 WPL707 N3 1601/1649 32:37N/37:59N 71:00 54,5/54,8 155 217 11.5 74,000 426 WPL708 N4 1651/1738 38:12N/43:34N 71:00 54,8/55,1 155 219 11.0 500,000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	128	424	WPL706	N2	1311/1559		71:00	54/54.8	155	213	11.8		11
426 WPL708 N4 1651/1738 38:12N/43;34N 71:00 54.8/55.1 155 219 11,0 500,000  431 WP705 N1 1359/1534 16:00N/27:10N 69:00 56.2/66.2 122 210 12.2 23,000 RN 432 WP706 N2 1537/3713 27:24N/38:04N 69:00 66/66.3 115 219 10.0 30,000 433 WP707 N3 1721/1838 38:04N/26:55N 69:15/69:30 66.2/68.9 113 221 9.2 42,000 434 WP708 N4 1859/2035 26:44N/17:15N 69:30/69:40 68.8/69.5 109 218 8.3 28,000  435 WP709 N1 1310/1353 16:00N/10:51N 69:00 54.5 155 199 11.4 400 RS 436 WP710 N2 1400/1446 10:37N/05:17N 69:00 54.5 155 195 12.5 1,100		425											20
RN 432 WP706 NZ 1937/4713 27:24N/38;04N 69:00 66/66,3 115 219 10.0 30,000 433 WP707 N3 1721/1838 38:04N/26:55N 69:15/69:30 66,2/68.9 113 221 9.2 42,000 434 WP708 N4 1859/2035 26:41N/17:15N 69:30/69:40 68.8/69.5 109 218 8.3 28,000 435 WP709 N1 1340/1353 16:00N/10:51N 69:00 54.5 155 199 11.4 400 RS 436 WP710 N2 1440/1446 10:37N/05:17N 69:00 54.5 155 195 12.5 1,100													45
RN 432 WP706 NZ 1537/4713 27:24N/38:04N 69:00 66/66.3 115 219 10.0 30,000 413 WP707 N3 1721/1838 38:04N/26:55N 69:15/69:30 66,2/68.9 113 224 9.2 42,000 434 WP708 N4 1859/2035 26:41N/17:15N 69:30/69:40 68.8/69.5 109 218 8.3 28,000 435 WP709 N1 1340/1353 16:00N/10:51N 69:00 54.5 155 199 11.4 400 RS 436 WP710 N2 1400/1446 10:37N/05:17N 69:00 54.5 155 195 12.5 1,100		434	W12705	N4	1359/1534	16:00N/27:10N	69-00	56.2/64.2	122	240	12.2	23, 000	10
433 WP707 N3 1721/1858 38:04N/26:55N 69:15/69:30 66.2/68.9 113 221 9.2 42.000 434 WP708 N4 1859/2035 26:41N/17:15N 69:30/69:40 68.8/69.5 109 218 8.3 28.00U 435 WP709 N1 1340/1353 16:00N/10:51N 69:00 54.5 155 199 11.4 400 RS 436 WP710 N2 1400/1446 10:37N/05:17N 69:00 54.5 155 195 12.5 1,100													21
434 WP708 N4 1859/2035 26:41N/17:15N 69:30/69:40 68.8/69.5 109 218 8.3 28,000  435 WP709 N1 1310/1353 16:00N/10:51N 69:00 54.5 155 199 11.4 400 RS 436 WP710 N2 1400/1446 10:37N/05:17N 69:00 54.5 155 195 12.5 1,100	****												19
RS 436 WP710 N2 1400/1446 10:37N/05:17N 69:00 54.5 155 195 12.5 1,100													1!
RS 436 WP710 N2 1400/1446 10:37N/05:17N 69:00 54.5 155 195 12.5 1,100		410	W 13700	874	4340/4383	44.0037/40.5155	40.00		,	. 400		,	
		437	WP711	N3	1450/1537	04:56N/00:02 S	69:00	55			12.5	740	
438 WP712 N4 1540/1625 00:238/05:565 69:00 55 155 197 14.9 290													

^{*} Exposure of HASP No. 412 interrupted for 35 minutes due to flame out of aircraft.

Isotopes, Inc.

Table 4.2 (continued)

AC No.	HASP No.	Air Force	Filter	Tirae (Z)	Latitule	Longitude (°W)	Altitude (1000 ft.)	IAS (Kt)	Temp. (*K)	10 ³ SCF	dpm/100 Total Beta	5r ⁹⁰
5 April	1958	Mission 38										
717	447	WPL801	Ni	1306/1354	44:00N/49:50N	71:00	55	155	220	11.2	71,000	124
PN	448	WPL802	N2	1356/1444	50:04N/55:54N	71:00	55	155	221	11.2	50,000	120
	450	WPL804	N4	1611/1644	49:44N/46:11N	71:00	63.8/63.4	125	220	4. 2	14, 400	108
716	443	WPL797	Ni	1345/1433	44:00N/39:33N	71:00	55	155	218	11.3	55,000	103
PS	444	WPL798	N2	1434/1522	39:26N/33:59N	71:00	55	155	211	11.7	32,000	67
	445 446	WPL799	N3 N4	1523/1612 1612/1700	33:52N/28:25N 28:18N/22:51N	71:00 71:00	55 55/54.3	155 155	209 203	12. 2 12. 3	7, 200 5, 900	15
	440	WPL800	14.4	1612/1700	20; 16 N/ 22; 31N	11;00	33/34/3	199	203	16. 3	5, 700	1.
	455	WP753	N1	1359/1538	16:00N/27:02N	69:00	58.3/66	121	209	12.4	31,000	8
RN	456	WP754	NZ	1539/1716	27:16N/38:18N	69:00	66/67	118	213 213	10.9	11,700	10
	457 458	WP755 WP756	N3 N4	1725/1857 1858/2041	38:18N/27:16N 27:02N/16:00N	69:00 69:00	66.8/68.2 68.2/69.4	115	214	9.5 9.3	12, 900 37, 000	111
	. 451 452	WP729 WP730	N1 N2	1308/1444	16:00N/05:01N 01:39N/06:115	69:00 69:00	56.6/55.4 55.2/55.7	155 155	195 194	25.3 18.7	1, 950	
RS	453	WP731	NG N3	1513/1623 1630/1807	01:39N/06:11S 06:11S/01:44N	69:00	58.5/61.6	135	203	17.1	185 4,000	2
	454	WP732	N4	1807/1943	04:58N/16:00N	69:00	61,6/62.2	135	203	16.4	64, 000	12
		Mission 39										
717	459	WPL1008	N1	1300/1348	44:00N/49:44N	71:00	55	152	226	10.5	85,000	17
PN	460	WPL1009	N2	1349/1442	49:51N/56:11N	71:00	55	153	227 229	11.9	77, 000	17
	461 462	WPL1010 WPL1011	N3 N4	1443/1526 1527/1615	56: 18N/61: 26N 61: 33N/67: 16N	71:00 71:00	55 55	150 150	230	9. i 10. i	82,000 101,000	22 23
									216			
716 PS	463 464	WPL1016 WPL1017	N1 N2	1345/1432 1435/1523	44:00N/38:22N 38:08N/32:30N	71:00 71:00	55 55	150 150	216 210	10.8 11.2	91, 000 63, 000	18
Fo	165	WPL1018	N3	1525/1612	32: 16N/26: 38N	71:00	55	150	206	11, 2	58,000	14
	466		N4	1614/1701	26: 31N/20: 53N	71:00	55	150	204	11.5	36,000	9
	467	WP817	N1	1000/1134	16:00N/27:02N	69:00	51.5/66.5	120	208	11.6	29, 000	11
RN	468	WP818	N2	1137/1313	27:16N/38:18N	69:00	66.8/67.3	117	213	10.4	12, 200	15
	469		N3	1321/1457	38: 18N/27: 16N	69:00	66.8/68.6	115	215	9.7	9, 400	•
	470	W P820	N4	1459/1635	27:02N/16:00N	69:00	68.7/70.3	111	213	8.8	24, 000	15
	471		N1	0910/1045	16:00N/04:58N	69:00	55	155	195	25, 4	2, 600	
RS	472		NZ	1048/1225	04:44N/06:18 S	69:00	54	155	198	26.4	≤ 174	
	473 474		N3 N4	1232/1408 1410/1545	06:18 8/04:44N 04:58N/16:00N	69:00 69:00	59 60	135 135	203 202	17.9 17.2	2, 100 44, 000	11
4 340			•••		•	-,,					,	
		Mission 40										
717 PN	475		N1 N2	1300/1348 1349/1437	44:00N/49:40N 49:47N/55:27N	71:00 71:00	55 55	155 155	218 226	11.4 10.9	158, 000 174, 000	2°
E14	477		N3	1438/1526	55:34N/61:26N	71:00	55	155	228	10.9	112,000	2
	478		N4	1527/1615	61:33N/67:25N	71:00	55.7	155		10.7	61,000	1
716	479	WPL1024	Ni	1345/1433	44:00N/39:28N	71:00	55	155	214	11.6	72, 000	1
PS	480		N2	1434/1522	39:21N/33:49N	71:00	55	155		11.7	48,000	
	48		N3	1524/1612	33:35N/28:03N	71:00	55	155		12.0	15, 400	
	487	WPL1027	N4	1614/1702	27:49N/22:17N	71:00	55	155	207	12.0	7, 100	
	48.		N1	0958/1133	16:00N/27:02N	69:00	65/65.5	121		11.8	40,000	1
RN	48		N2	1136/1312	27:16N/37:42N	69:00	65, 5/66. 3	119		11.0	39,000	1
	48: 48:		N3 N4	1321/1457 1459/1635	37:42N/26:55N 26:41N/16:00N	69:00 69:00	66.1/68.3 68.3/70.4	118		10.4 8.9	28,000 26,000	1
			Ni	0910/1047	16:00N/04:30N	69:00			193	26. 2	660	
			N1	0910/1047	10:UUN/U4:30N	69:00	55	155	193	26.2	660	
 pe	48				04-16N/05-09 P	69.00		455				
RS	48 48 48	8 WP826	NZ N3	1048/1225	04:16N/05:08 S 05:08 S/05:54N	69:00 69:00	55 59.5	158	192	27.2	7, 200 5, 700	

Isotopes, Inc.

C No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft.)	IAS (Kt)	Temp,	i0 ³ SCF	Total Beta	Sr ⁹⁰
May 19	58 Mi	ssion 41										
716	503	WPL861	Ni	1300/1348	44:00N/40:00N	71:00	45	155	225	16.0	31,000	79
PS	504	WPL862	N2	1356/1444	39:20N/35:20N	71:00	45	163	217	16.7	26,000	72
	505	WPL863	N3	1452/1540	34:40N/30:40N	71:00	45	165	210	17. 2	8,700	34
	506	WPL864	N4	1547/1635	30:05N/26:05N	71:00	45	165	207	17. 4	≤ 460	2
717 P <b>S</b>	499 500	WPL689 WPL690	Ni N2	1345/1433 1438/1526	44:00N/38:46N 38:13N/32:59N	71:00 71:00	55 55	150 150	222 213	10, 5 11, 0	64,000 50,000	133 121
ro	501	WPL691	N3	1531/1619	32: 26N/26: 12N	71:00	55	150	208	11, 3	72,000	203
	502	WPL692	N4	1623/1711	25:46N/20:32N	71:00	55	150	203	11.7	31,000	63
	495	WP833	N4	0957/1044	16:00N/21:28N	69:00/68:38	59	135	203	8.8	29,000	66
RN	496	WP834	NZ	1047/1134		68:38/68:45	59.5	135	213	8,0	72,000	153
	497	WP835	N3	1137/1223	27:23N/30:42N	68:45/69:06	60	135	211	7.9	82,000	166
	498	WP836	N4	1227/1315	32:56N/38:26N	69:06/69:14	60	135	218	7.9	84,000	169
	491	WP829	N1	0912/1000	16:00N/21:32N	69:00/68:58 68:58/69:18	62.6	128 124	209 211	7.1	65,000	179
RN	492 493	WP830 WP831	N2 N3	1002/1051 1052/1140	21:46N/27:24N 27:38N/33:17N	69:16/69:12	62.7 64	124	215	6. B 6. 2	41,000 17,300	122 132
	494	WP832	N4	1142/1229	33:31N/39:24N	69:12/69:08	64/64.7	124	223	5, 8	14, 500	99
4 May 1	958 M	ission 42										
•	507		214	1200/1245	44.0031/40.243	71:00	55	150	219	40.0	DF 005	
718 PN	507 508	WPL809 WPL810	N1 N2	1300/1348 1349/1437	44:00N/49:34N 49:41N/55:15N	71:00	55 55	150 150	219 223	10.8 10.5	95,000 154,000	169 216
PIV	509	WPL811	N3	1438/1526	55; 22N/60; 56N	71:00	55	150	223	10.5	119,000	211
	510	WPL812	N4	1527/1615	61:03N/66:37N	71:00	55	150	222	10.5	127,000	211
716	511	WPL813	N1	1345/1433	44;00N/38:28N	71:00	55	155	216	11.5	159,000	22:
PS	512	WPL814	N2	1434/1522	38: 21N/32:49N	71:00	55	155	208	12.0	122,000	124
	513	WPL815	N3	1524/1612	32:35N/27:03N	71:00	55	155	204	12.2	191,000	108
705	519	WP841	N1	0910/1043	16:00N/04:48N	69:00	55	155	195	24.9	42,000	19
RS	520 521	WP842 WP843	N2 N3	1048/1224 1232/1408	04: 32N/06: 22 S 06: 22 S/03: 52N	69:00 69:00	55 60	155 135	193 197	25.7 18.0	25,000 18,900	12
	522	WP844	N4	1410/1546	04:08N/16:00N	69:00	61	135	199	17.3	93,000	156
29 May 1	1958 1.	tission 43										
714/RN	523	WP845	N1	1359/1428	16:00N/19:20N	69:00	55/67	135	203	5, 1	125,000	10
705	524	WP857	N1	1310/1446	16:00N/04:58N	69:00	55	155	195	25, 7	184,000	2
RS	525	WP858	N2	1452/1626	04:58N/16:00N	69:00	59	135	201	17.7	78,000	16
3 June	1958 1	Mission 54										
715	526	WP853	N1	1245/1445	19:20N/18:18N	66:00	16, 4/45, 5	160	204	41.7	910	
RO	527	WP854	N2	1446/1646	18:25N/17:47N	66:00/66:10		144	195	45. 3	78,000	4
	528	WP855	N3	1646/1846	17:54N/17:47N	66:00/66:10	56.8/63.2	127	211	17.2	86,000	17
	529	WP856	N4	1847/2017	17:54N/17:47N	66:00/66:15	63. 2/68	110	213	8.5	73,000	21
6 June	1958	Mission 55										
714	5 3 0	WP865	N1	1245/1445	18:32N/18:25N	66:00	46	180	203	49. 5	1,830	
RO	5 3 1	WP866	N2	1448/1645	18:46N/18:53N	66:00	5?	146	203	25. 9	123,000	7
715	532	WP869	Ni	1645/1846	18: 32N/18: 32N	66:00	63	126		17.2	71,000	11
RO	533	WP870	N2	1846/2057	18:39N/18:48N	66:00	63.4/68/ 57.3	108	213	12. 3	75,000	15
10 June	1958	Mission 56										
	534	WP873	Ni	1245/1450	18; 32N	66:00	45	183	206	61 3	760	
714 RO	535	WP874	SN.	1451/1650	19:07N	66:00	45 54. 4/55. 6	182 146		51, 3 28. 0	750 178,000	
705	5 3 6	WP861	Ns	1400/1600	18: 32N	66:00	63	125	208	16.8	120,000	1
RO	537	WP862	N2	1600/1802	18: 39N/18: 46N		66	118		13.7	43, 800	1

AC No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	10 ³	dpm/100	
AC NO.	No.	No.	¥11601	(Z)		(*W)	(1000 ft.)	(Kt)	('K)	SCI	Beta	Sr ⁹⁰
13 June	1958 N	Aission 57										
715	538	WP877	N1	1245/1445	18;32N/18:04N	66:00	45,6	182	225	45.3	8, 100	16
RO	539	WP878	NS	1450/1650	18:39N/18:16N	66:00	55.5	146	202	27.9	93,000	184
714	540	WP885	Ni.	1401/1601	18:46N/18:32N	66:00 66:00	63.3/63.8	127	205	17.3	58,000	115
RO	541	WP886	N2	1602/1802	18:39N/18:32N	66:00	63.7/70.1	109	210	11.0	54,000	171
17 June	1958	Mission 60A										
714	542	WP889	N1	1145/1345	18: 32N	66:00	46	182	205	49.7	2, 300	2
RO	543	WP890	N2	1347/1547	19:00N/18:32N	66:00 66:00	54 57	156 146	200 203	32.5 25.9	43,000	34
	544 545	WP891 WP892	N3 N4	1548/1745 1747/1945	18:53N/18:32N 18:46N/18:32N	66:00	úυ	135	205	21.0	170,000 72,000	56 85
705	546	WP881	N1	1300/1500	18:32N/18:39N	66:00	6.3	126	208	18,0	42,000	98
RO	547	WP882	N2	1501/1701	18:46N/19:04N	66:00	64	121	209	15.6	67,000	149
	548 549	WP883 WP884	N3 N4	1703/1903	19:18N/19:21N 19:21N/19:07N	66:00/66:04 66:04/66:00	66 66/69.5	118	210 212	13.9 11.4	93,000 90,000	173
	747	WFOGS	14.4	1903/2102	19:21N/19:07N	00:04/00:00	90/07.5	110	212	11.4	90,000	186
20 June	1958	Mission 60B										
705	550	WP929	N1	1245/1414	18:28N/18:50N	66:00/67:50	45, 1	182	206	38.0	10,900	19
RO	551	WP930	N2	1419/1549	18:34N/18:55N	67:50/66:00	53. 3	156	201	24.7	47,000	37
	552 553	WP931 WP932	N3 N4	1551/1720 1723/1853	19:23N/17:52N 17:42N/19:28N	66:00/67:48 67:41/66:04	•56. 1 59	147 135	201 201	20.6 16.9	96.000 67,000	127 100
714	554	WP925	N1	1200/1330	18:34N/18:05N	66:00/67:50	63, 6	126	201	13, 2	69, 000	142
RO	555	WP926	N2	1331/1500	17:58N/18:32N	67:50/66:00	65, 6	121	204	11.3	122,000	182
	556	WP927	N3	1501/1629	18:39N	66:00/67:50	67.6	116	203	9.9	55,000	172
	557	WP928	N4	1630/1859	18: 39N/18: 41N	67:50/66:00	67,6/70,5	110	205	8.6	38,000	157
24 June	1958	Mission 61A										
714	558	WP937	N4	1212/1300	16:00N/21:04N	69:00	60	135	206	8.5	64,000	106
RN	559	WP918	N2	1302/1350	21:18N/26:50N	69:00	60	135	208	8.4	90,000	166
	560 561	WP939 WP940	N3 N4	1352/1440 1442/1530	27:04N/32:04N 32:18N/37:40N	69:00 69:00	60 60	135 135	209 211	8.3 8.2	67, 000 76, 000	207 229
705	562	WP933	N1	1310/1358	15:00N/10:27N	69:00	60	135	205	8. 5	71,000	75
RS	* 563	WP934	N2	1400/1448	10:13N/95:05N	69:00	60	135	205	8.5	270,000	120
	564	WP935	N3	1450/1538	04:51N/00:50 S	69:00	60	135	203	8.7	137,000	94
	565	W.P936	N4	1540/1627	01:04S/05:45S	69:00	60	135	201	8.6	71,000	70
28 June	1958	Mission 62										
714	566	WP941	NI	1212/1300	16:00N/21:32N	69:00	60	135	206	8,5	47,000	76
RN	567	WP942	NZ	1302/1350	21:46N/27:18N	69:00	60.6	135		8.3	96,000	173
	568 569		N3 N4	1352/1440 1442/1530	27:32N/33:04N 33:18N/38:40N	69:00 69:00	60.6 60.6	135 135	208 211	8, 2 8, 0	73,000 66,000	140 155
746			-									
715 RS	570 571		N1 N2	1310/1400 1405/1448	16:00N/10:28N 09:34N/04:45N	69:00 69:00	60,2 60,2	135 135		8.8 7.7	131,000 181,000	92 114
N.S	572		N3	1450/1538	04:31N/01:05 S		60.3	135		8.6	95,000	82
	573		N4	1545/1627	01:54 5/06:00 8		60,3/60.5	135		7,5	103,000	110
1 Jul	y 1958	Mission 60C										
715	574	WP953	NI	1235/1405	18:04N/17:47N	67:50/67:10	6 45/44	160	215	30. 1	1,790	
RO	575	WP954	NZ	1410/1539	17:47N/19:30N	66: 37/66:45	5 51.2/52.2	156	201	25. 2	3, 100	
	576	~ WP955	N3	1545/1715	19:30N/17:47N		4 54.6/56.1	146		20,5	11,000	24
	577		N4	1720/1849	17: 47N/19: 30N		9 58.8/59.4	1 3 5	205	16, 2	38,000	86
714 RO	578 579		in Sn	1145/1315 1320/1450	18:28N/17:51N 17:47N/19:07N			126		12, 7 10, 9	70.000 71,000	20 16
RU	580		N2	1455/1625	17: 47N/19:07N			1116		9.4	178,000	22
	581		N4	1630/1800	17:47N/19:30N			109		7.7	116,000	23
												•

Isotopes, Inc.

C No. HASP										•	dpm/10	00 SCF
C No.		Air Force No.	Filter	Time (2)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS (Kt)	Temp.	10 ³ SCF	Total Bets	Sr ⁹⁰
July	1958 M	ission 61-B										
715	582	W12965	N4	1212/1300	16:00N/21:32N	69:00	60.4	135	208	8.3	70,000	100
RN	583	WP966	NZ	1302/1351	21:46N/27:18N	69:00	60.4	135	205	8.6	38,000	88
	584	WP967	N3	1352/1440	27: 32N/33: 00N	69:00	60.4	135	205	8.4	56,000	133
	585	WP968	N4	1442/1529	33:14N/38:41N	69:00	60.4	135	213	7.8	64, 000	157
714	586	WP961	N1	1310/1359	16:00N/10:40N	69:00	60	135	208	8.6	73,000	96
RS	587	WP962	N2	1400/1448	10: 26N/04: 55N	69:00	60.3	135	205	8.5	92,000	73
	588	WP963	N3	1450/1538	04:41N/00:54S	69:00	60.6	135	206	8,3	107,000	68
	589	WP964	N4	1540/1628	01:08 5/06:42 5	69:00	60.6	135	206	8.3	74, 000	84
8 July	1958 M	ission 60-D		•								
705 *	* 590	W12989	N4	1240/1410	48-27N/48-44N	66:00/67:50	44.6	182	226	34.7	36, 000	32
	* 590 594	WP989	N1	1240/1410	18:27N/18:41N	66:00/67:50	44, 6 53, 2	182	226 204	34, 7 24, 9	36, 000 19, 000	
705 ° RO	591	WP990	N2	1415/1545	18:05N/18:59N	67:50/66:00	53.2	156	201	24.9	19,000	22
	591 593	WP990 WP992	NZ N4	1415/1545	18:05N/18:59N 18:17N/17:50N	67:50/66:00 66:00/67:50	53. 2 56. l	156 146	201 203		19, 000 280 000	22 17 1
	591	WP990	N2	1415/1545	18:05N/18:59N	67:50/66:00	53.2	156	201	24.9	19,000	22 17 1
	591 593	WP990 WP992	NZ N4	1415/1545	18:05N/18:59N 18:17N/17:50N	67:50/66:00 66:00/67:50	53. 2 56. l	156 146	201 203	24.9	19, 000 280 000	32 22 17 1 500
RO	591 593 592	WP990 WP992 WP991	N2 N4 N3	1415/1545 1547/1717 1719/1849	18:05N/18:59N 18:17N/17:50N 17:40N/19:32N	67:50/66:00 66:00/67:50 67:45/66:00	53. 2 56. l 59	156 146 138	201 203 205	24.9 20.4	19,000 280 000 1,050,000	22 17 1 500
RO 715	591 593 592 594	WP990 WP992 WP991 WP1000	N2 N4 N3	1415/1545 1547/1717 1719/1849 1150/1319	18:05N/18:59N 18:17N/17:50N 17:40N/19:32N 18:24N/19:30N	67:50/66:00 66:00/67:50 67:45/66:00 66:00/66:52	53. 2 56. 1 59 63	156 146 138	201 203 205 205	24.9 20.4	19,000 280 000 1,050,000 51,000	22 17 1 500 148

	. UASD Aim Force									,	dpm/10	00 SCF
Date	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft.)	IAS (Kt)	Temp. (*K)	10 ³ SCF	Total Beta	Sr ⁹⁰
2 Septer	mber -	2 October 195	8 North	Flight								
12 Sept.	961	FA-21	н	1652/1855	71:20N/74:30N	156: 40 / 156: 30	65.5/66.3	119	223	30.6	2, 800	74
7 Sept.	962	FA-23	H	1715/1950	71:00N	157:00	50	133	225	76.8	11, 600	126
19 Sept.	963	FA-24	н	1644/1844	71:00N	157:00	60	135	223	43, 5	12, 200	175
27 Sept.	964	FA-26	н	1649/1849	71:00N	157:00	50	133	225	59.5	15, 000	187
24 Sept.	965	FA-27	н	1709/1928	71:00N	157;00	63.5/65	123	222	39.0	3, 000	53
27 Sept.	966	FA-28	н	1727/1927	71:00N	157:00	64/64.5	123	223	33, 4	2, 600	69
1 Oct.	967	FA-29	н	1721/1916	71:00N	157:00/ 166:00	60	135	223	41.7	5, 300	150
2 Oct.	968	FA-30	н	1717/1847	71:00N/73:00N	157:00/ 156:00	50	134	223	45, 3	i, <b>45</b> 0	116

Isctopes, Inc.

2 Santa	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	LAS	Temp.	103	dpm/10	
2 Santa	No.	No.		(Z)		(.M)	(1000 ft.)	(Et)	(*K)	SCF	Beta	8r ⁹⁰
Septe	mber 19	8 Mission	L									
718	598	WP1052	Ni	1147/1235	10:00N/04:25N	66:03/65:30	62.5/63.5	127	206	7.0	450,000	718
RE	599	WP1053	N2	1237/1325	04:11N/01:15 S	65:28/64:55	63.5/65	123	206	6.5	290,000	599
	600	WP1054	N3	1327/1415	01:30 S/06:52 S	64:55/64:10	65/65.5	120	206	6.0	220,000	437
	601	WP1055	N4 ·-	1417/1504	07:05 S/12:30 S	64:08/63:33	65, 5/66, 3	119	206	5.7	107,000	27
716	605	WP1047	N1	1342/1429	01:24 S/06:42 S	64:55/64:13	67	118	206	5, 6	260,000	47
RE	602	WP1045	N2	1431/1519	06:57 S/12:24 S	64:10/63:35	67	117	206	5.4	150,000	427
	603	WP1044	N3	1521/1609	12:39 S/18:07 S	63:32/63:05	67	118	206	5.5	101,000	221
	604	WP1046	N4	1611/1659	18: 20 S/23: 45 S	63:02/61:25	66	115	206	5. 3	29.000	159
6 Septe	mber 19	58 Mission	<u>z</u>									
705	.610	WP1160	Ni	1516/1602	06:00 S/00:41 S	64:00	60	136	205	8, 3	107,000	25
RS	611	WP1161	N2	1604/1650	00:37 8/04:53N	64:00	60	136	204	8.3	220,000	41
	612	WP1162	N3	1652/1738	05:07N/10:18N	64:00	60	135	202	8. 3	270,000	43
	613	WP1163	N4	1740/1826	10:32N/16:00N	64:00	60	135	201	8.4	340,000	48
				,						-,-	,	
19 Septe	ember 19	58 Mission	3A									
715/RS	615	WP1165	NZ	1522/1607	07:47 S/02:36 S	64:00	60	135	201	8. 2	175,000	28
716	618	WE673	N1	1528/1628	09:00 S/15:30 S	62:00	60	135	208	10.5	65,000	29
EN	619	WE674	N2	1630/1724	15:30 S/22:00 S	62:00	60	140	208	10.0	7,200	5
	620	WE675	N3	1726/1819	22:00 5/28.30 5	62:00	60.5	140	209	9.7	7,200	9
	621	WE676	N4	1820/1917	48; 30 S/35:00 S	62:00	60.5	145	214	10.6	7,900	8
23 Sept	ember 1	958 Mission	4									
705	625	WP529	N1	1450/1541	38:00N/32:29N	64:00	60	135	211	8.7	29,000	13
RN	626	WP530	N2	1543/1629	32:15N/26:52N	64:00	60	135	211	7.9	28,000	13
	627	WP531	N3	1631/1717	26: 38N/21: 19N	64:00	60	135	210	8.0	55,000	12
	628	WP532	N4	1719/1805	21:05N/15:46N	64:00	60	135	209	8,0	370,000	38
				1510/1556	06:00 8/00:41 S	64:00	60	135	205	8.2	180,000	
715	629	WP1152	N1			04:00				8.5		21
715 RS	629 630	WP1152 WP1153	N1 N2				60	138	205		( '9,000	
715 RS	629 630 632	WP1152 WP1153 WP1155	N1 N2 N4	1558/1644 1734/1820	00:27 8/04:53N 10:37N/15:57N	64:00		138 138	205 207	8.4	( ~9,000 310,000	21 14 26
RS	630 632	WP1153 WP1155	N2 N4	1558/1644 1734/1820	00:27 S/04:53N	64:00 64:00	60					14
RS 716	630 632 622	WP4153 WP1155 WE781	N2 N4 N1	1558/1644 1734/1820 1225/1326	00:27 S/04:53N 10:37N/15:57N 35:00 S/40:00 S	64:00 64:00 62:00	60 60 31, 6/40, 3	138	207 225	8. 4 28. 0	310,000 3,200	14 26
RS	630 632	WP1153 WP1155	N2 N4	1558/1644 1734/1820	00:27 8/04:53N 10:37N/15:57N	64:00 64:00 62:00 62:00	60 60	138	207	8.4	310,000	14 26
RS 716 ES	630 632 622 623	WP4153 WP1155 WE781 WE783 WE784	N2 N4 N1 N3 N4	1558/1644 1734/1820 1225/1326 1537/1722	00:27 8/04:53N 10:37N/15:57N 35:00 8/40:00 8 40:00 8	64:00 64:00 62:00 62:00	60 60 31, 6/40, 3 40	138 170 170	207 225 220	8. 4 28. 0 43. 1	310,000 3,200 4,800	14
716 ES 30 Sept	630 632 622 623 624 tember 1	WP4153 WP1155 WE781 WE783 WE784	N2 N4 N1 N3 N4	1558/1644 1734/1820 1225/1326 1537/1722 1723/1825	00: 27 8/04: § 3N 10: 37N/15: 57N 35: 00 S/40: 00 S 40: 00 S 40: 00 S/35: 00 S	64:00 64:00 62:00 62:00 62:00	60 60 34, 6/40, 3 40 40	138 170 170 170	207 225 220 220	8.4 28.0 43.1 25.5	310,000 3,200 4,800 5,700	14 26
716 ES 30 Sept	630 632 622 623 624 tember 1	WP4153 WP1155 WE781 WE783 WE784	N2 N4 N1 N3 N4	1558/1644 1734/1820 1225/1326 1537/1722 1723/1825	00: 27 8/04: § 3N 10: 37N/15: 57N 35: 00 8/40: 00 8 40: 00 8 40: 00 8/35: 00 8	64:00 64:00 62:00 62:00 62:00	60 60 31.6/40.3 40 40	138 170 170 170	207 225 220 220 220	8. 4 28. 0 43. 1 25. 5	310,000 3,200 4,800 5,700	14 26
716 ES 30 Sept	630 632 622 623 624 tember 1	WP1153 WP1155 WE781 WE783 WE784 958 Mission WE665 WE666	N2 N4 N1 N3 N4 3B	1558/1644 1734/1820 1225/1326 1537/1722 1723/1825 1535/1634 1636/1716	00:27 8/04: 53N 10:37N/15: 57N 35:00 S/40:00 S 40:00 S 40:00 S/35:00 S 09:30 S/16:00 S 16:00 S/23: 30 S	64:00 64:00 62:00 62:00 62:00 63:62:00	60 60 34.6/40,3 40 40	138 170 170 170 170	207 225 220 220 220	8. 4 28. 0 43. 1 25. 5	310,000 3,200 4,800 5,700 90,000 10,100	14 26
716 ES 30 Sept	630 632 622 623 624 tember 1	WP4153 WP1155 WE781 WE783 WE784	N2 N4 N1 N3 N4	1558/1644 1734/1820 1225/1326 1537/1722 1723/1825	00: 27 8/04: § 3N 10: 37N/15: 57N 35: 00 8/40: 00 8 40: 00 8 40: 00 8/35: 00 8	64:00 64:00 62:00 62:00 62:00 63:62:00 64:00 64:00 64:00 64:00	60 60 31.6/40.3 40 40	138 170 170 170	207 225 220 220 220	8. 4 28. 0 43. 1 25. 5	310,000 3,200 4,800 5,700	• 1
716 ES 30 Sept 716 EN	630 632 622 623 624 tember 1 633 634 635 636	WP4153 WP1435 WE784 WE783 WE784 .958 Mination WE665 WE666 WE667	N2 N4 N1 N3 N4 3B N1 N2 N3 N4	1558/1644 1734/1820 1225/1326 1537/1722 1723/1825 1535/1634 1636/1716 1720/1836 1937/2025	00:27 8/04:53N 10:37N/15:57N 35:00 S/40:00 S 40:00 S 40:00 S/35:00 S 09:30 S/16:00 S 16:00 5/23:30 S 23:30 S/26:30 S 28:30 S/35:00 S	64:00 64:00 62:00 62:00 62:00 63:62:00 64:00 64:00 64:00 64:00	60 60 31. 6/40. 3 40 40 60 60. 5 60. 5	138 170 170 170 135 135 135	207 225 220 220 220 209 209 211 205	8. 4 28. 0 43. 1 25. 5	310,000 3,200 4,800 5,700 90,000 10,100 9,500 18,700	• 1
716 ES 30 Sept 716 EN	630 632 622 623 624 tember 1 633 634 635 636	WP4153 WP1435 WE781 WE783 WE784 958 Mission WE665 WE666 WE667 WE668	N2 N4 N1 N3 N4 3B N1 N2 N3 N4	1558/1644 1734/1820 1225/1326 1537/1722 1723/1825 1535/1634 1636/1716 1720/1836 1937/2025	00:27 8/04:53N 10:37N/15:57N 35:00 8/40:00 8 40:00 5 40:00 8/35:00 8 09:30 8/46:00 8 16:00 5/23:30 8 23:30 8/26:30 8 25:00 8/52:00 8	64:00 64:00 62:00 62:00 62:00 63:62:00 64:00 65:00 62:00 62:00 62:00	60 60 31.6/40.3 40 40 60 60.5 60.5 60.5	138 170 170 170 135 135 135 135	207 225 220 220 209 209 211 205 209	8. 4 28. 0 43. 1 25. 5	310,000 3,200 4,800 5,700 90,000 10,100 9,500 18,700 10,200	• 1
716 ES 30 Sept 716 EN	630 632 622 623 624 tember 1 633 634 635 636	WP4153 WP1435 WE784 WE783 WE784 .958 Mination WE665 WE666 WE667	N2 N4 N1 N3 N4 3B N1 N2 N3 N4	1558/1644 1734/1820 1225/1326 1537/1722 1723/1825 1535/1634 1636/1716 1720/1836 1937/2025	00:27 8/04:53N 10:37N/15:57N 35:00 S/40:00 S 40:00 S 40:00 S/35:00 S 09:30 S/16:00 S 16:00 5/23:30 S 23:30 S/26:30 S 28:30 S/35:00 S	64:00 64:00 62:00 62:00 62:00 62:00 62:00 62:00 62:00 62:00	60 60 31. 6/40. 3 40 40 60 60. 5 60. 5	138 170 170 170 135 135 135	207 225 220 220 220 209 209 211 205	8. 4 28. 0 43. 1 25. 5	310,000 3,200 4,800 5,700 90,000 10,100 9,500 18,700	* 4:

Isotopes, Inc.

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	dpm/100	
	No.	No.		(Z)		(w)	(1000 ft.)	(Kt)	(*K)	SCF	Beta	Sr 90
Octob	ber 1958	Mission 5										•
15	649	WP533	N1	1536/1622	38:00N/32:41N	64:00	60	134	212	7.7	36,000	153
RN	650	WP534	N2	1624/1711	32:27N/27:07N	64:00	60	135	210	8. 1	36, 000	144
	651	WP535	N3	1712/1759	26:53N/21:34N	64:00	60	135	208	8.2	136,000	244
	652	WP536	N4	1800/1845	21:20N/16:00N	64:00	60	135	208	7.9	220,000	345
714	653	WP1048	N1	1517/1607	07:525/01:595	64:00	60	135	203	9.0	610,000	319
RS	654	WP1049	N2	1609/1656	01:45 8/04:08N	64:00	60	135	203	8,5	2,700,000	1294
	655	WP1050	N3	1701/1749	04:22N/10:15N	64:00	60	135	203	8.7	430,000	426
	656	WP1051	N4	1753/1841	10:29N/15:53N	64:00	60	138	205	B, 9	280,000	370
718	+ 642	WE610	N2	1531/1618	09:30 8/15:15 S	62:00	60	135	205	12.8	6z,000	98
EN	643	WE611	N3	1620/1720	15:15 S/22:40 S	62:00	60	135	205	10.7	29,000	63
	644	WE612	N4	1720/1819	22:10 5/28:40 5	62:00	60	135	213	10.0	17,500	73
	+ 642	WE610	N2	1820/1845	28:50 5/31:43 8	62:00	60	135	205	12,8	62, 000	98
716	645	₩£605	N1	1455/1541	57:00 S/51:29 S	62:00	59. 6	135	219	7.7	8, 100	69
ES	646	WE606	N2	1546/1636	51:298/45:535	62:00	60	135	219	8,2	9, 100	67
	647	WE607	N3	1636/1711	45:53 S/40:17 S	62:00	60.5	135	219	5, 7	6, 300	76
	648	WE608	N4	1711/1757	40:17 8/35:00 8	62:00	60.5	135	213	7.B	8,700	87
7 Octo	ber 1958	Mission 6										
714	663	WP537	Nı	1515/1600	38:00N/32:41N	64:00	59.5	135	213	7.7	38,000	154
RN	664	WP538	N2	1603/1649	32:27N/27:07N	64:00	60	135	211	7.9	30,000	119
KIN	665	WP539	N3	1651/1736	26:53N/21:34N	64:00	60	135	209	7.9	41,000	113
	666	WP540	N4	1739/1824	21:20N/16:00N	64;00	60	135	208	7.9	73,000	200
705	667	WP1040	N1	1356/1421	01:12N/04:53N	64:00	60	138	208	4, 5	2, 800, 000	1826
RS	668	WP1041	N2	1423/1509	05:07N/10:26N	64:00	60.2	138	207	8, 3	1,570,000	1000
	669	WP1042	N3	1511/1557	10:40N/16:00N	64:00	60.5	138	207	8,3	122,000	225
718	660	WE613	Ni	1141/1225	35:00 8/40:00 S	62:00	51.2/60	135	211	7.8	9, 800	64
ES	661	WE615	N3	1425/1623	42:53 8/44:46 8	62:00	60	135	215	19.8	7,800	64
	662	WE616	N4	1736/1820	40:00 8/35:00 8	62:00/59:00	60.8/50.2	160	211	12.6	14,800	49
717	657	WE517	N1	1210/1258	35:00 8/40:00 S	62:00	60/63	130	213	7.4	22,000	90
ES	658	WE519	N3	1526/1626	45:00 S	62:00	65/67	118	215	6.7	25,000	200
	659	WE520	N4	1811/1857	40:00 B/35:00 B	62:00/59:00	59	141	215	8.6	18, 800	6
10 Oct	ober 195	Mission 7			•							
714	670	WP545	Ni.	1455/1541	38:00N/32:41N	64:00	60	135	203	8.3	26,000	15
RN	671	WP546	N2	1543/1630	32:27N/27:07N	64:00	60	135	201	8,7	23,000	15
-144	672	WP547	N3	1632/1717	26:53N/21:34N	64:00	60	135	204	8. 1	25,000	13
	673	WP548	N4	1719/1804	21:20N/16:00N	64:00	60	135	205	B. 0	52,000	18
705	674	WP549	Ni	1517/1607	07:45 S/02:20 S	64:00	60	135	203	9.0	1,720,000	134
RS	675	WP550	N2	1609/1659	02:06 B/03:26N	64:00	60	135		y. 0	1,840,000	106
	676	WP551	N3	1701/1751	03:40N/09:19N	64:00	60	135	205	8.9	950,000	94
	677	WP552	N4	1753/1843	09:33N/15:18N	64;00	60	135	205	8.9	153,000	39
716	678	WE521	N4	1141/1227	35:00 S/40:28 S	62:00	60	135		7.7	13, 400	9
ES	679	WE522	N2	1228/1322	40:28 S/46:50 S	62:00	60	135		8, 9	10, 200	7
	680	WE523	N3	1322/1407	46:50 5/51:30 8	62:00	60	135		7.6	8, 800	9
	681	WE524	N4	1408/1453	51:30 S/57:00 S	62:00	60 .	135	209	7, 8	9, 600	3
14 Oct	tober 195	8 Mission 8	ı				·					
			•	4840/4864	04.00 8/00 4: 5	64.00	4.0		384		400 000	
705 RS	688 689	WP557 WP558	N1 N2	1510/1556 1558/1644	06:00 S/00:41 S 00:27 S/04:53N	64:00 64:00	60 60	135		8.2 8.2	670,000 770,000	8 6 8 9
r.o	690	WP559	N2 N3	1646/1732	05:07N/10:26N	64:00	60	135		8.2	1, 100, 000	127
	691	WP560	N4	1734/1820	10:40N/16:00N	64:00	60	135		8.3	440,000	57
718	682	WE881	N1	1207/1307	35:00 S/40:00 S	62:00	34, 4/38, 5	3 470	215	26, 5	26.000	10
ES	683	WE883	N3	1507/1706	40: 30 S/44: 50 S		39/27	170			3, 300	•
	684	WE884	N4	1712/1804	40:00 S/35:00 S						≤ 210	
	~04		4.1							44.7	~ -10	

^{*} Sample number 642 expused twice,

Table 4.2 (continued)

C No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft.)	IAS (Kt)	Temp.	10 ³ SCF	Total Beta	Sr ⁹
7 Octob	er 1958	Mission 9			·							
715	692	WP569	N1	1455/1541	38:00N/33:00N	64:00	60	135	234	7.0	26,000	18
RN	693	WP570	N2	1543/1629	32: 46N/27: 46N	64:00	60	135	233	7.0	70,000	18
	694	WP571	N3	1631/1717	27; 34N/22: 34N	64:00	60	135	233	7.0	360,000	58
	695	WP572	N4	1719/1805	22:20N/17:20N	64:00	60	135	225	7.3	350,000	47
705	696	WP565	N1	1517/1607	07;45 S/01:59 S	64:00	60	135	223	8.0	920, 000	110
RS.	697	WP566	N2	1609/1659	01:45 5/04:01N	64:00	60	135	228	7.8	970,000	112
	698	WP567	N3	1701/1751	04: 15N/10: 01N	64:00	60	135	228	7.8	320,000	49
	699	WF568	N4	1753/1843	10: 15N/16: 00N	64:00	60	135	223	8.0	157,000	56
717	700	WEB89	N1	1214/1306	35:00 S/28:42 S	62:00	60	135	209	9.1	10,800	
EN	701	WE890	N2	1308/1400	28: 42 S/22: 38 S	62:00	60	135	207	9.2	10, 200	7
	702	WE891	N3	1402/1459	22; 38 5/15: 50 S	62:00	60	135	205	10.1	270,000	2
716	704	WE893	N1	1147/1233	35;00 S/40:00 S	62:00	60	135	208	8.0	8, 400	
ES	705	WE894	N2	1233/1331	40:00 S/46:40 S	62:00	60	135	208	10.1	7,800	
	706	WE895	N3	1332/1423	46: 40 S/51: 50 S	62:00	60	135	210	8.8	4, 400	
	707	WE396	N4	1424/1536	49: 10 S/40: 50 S	64:00	60	135	213	12.2	2,800	
9 Octo	ber 1958	Mission 12.	<u>A_</u>									
714	708	WP573	N4	1303/1411	20:00N/25:49N	71:00	50	160	197	21.7	4,800	
RP	709	WP574	N2	1416/1452	27:53N/31:53N	71:00	50	160	200	11.3	11, 100	
	710	WP575	N3	1455/1550	32:07N/37:56N	71:00	50	160	210	16.4	22,000	
	711	WP576	N4	1555/1647	38:49N/44:00N	71:00	50	160	215	15, 1	32,000	
715	712	WP577	N1	1226/1314	20:00N/25:49N	71:00	55	155	200	12.6	23,000	
RP	713	WP578	NZ	1319/1410	26:03N/31:53N	71:00	56	155	205	12.7	29,000	
	714	WP579	N3	1412/1504	32:07N/37:56N	71:00	56	155	209	12.6	33,000	4
	715	WP580	N4	1505/1614	38:10N/44:00N	71:00	55	155	215	16.6	56,000	4
705	716	WP581	N1	1158/1247	20:00N/25:49N	71:00	60	135	205	8.7	330,000	9
RP	717	WP582	N2	1251/1344	26:03N/32:10N	71:00	60	135	205	9.5	290,000	á
	718	WP583	N3	1345/1435	32: 13N/38: 17N	71:00	59.5	135	214	8.6	21,000	4
	719	WP584	N4	1438/1519	38: 31N/44: 07N	71:00	59	135	217	7.0	770,000	•
1 Octo	ber 1958	Mission 12	В									
717	720	WE897	Ni	1149/1244	35:00 S/40:00 S	62:00	52/60	150	205	12.5	13, 400	
ES	721	WE899	N3	1430/1630	42:00 8/43:00 8	62:00	59.9/61	135	215	20. 2	5, 900	•
	722	WE900	N4	1818/1908	40:00 8/35:00 8	62:00/58:00	60/51.2	150	211	12.6	23,000	
716	723	W£877	N1	1214/1252	35:00 8/40:00 S	62:00	64. 2/65. 6	124	215	4.8	13,600	
ES	724	WE879	N3	1504/1704	41:55 S/43:55 S	62:00	68/63	111	215	11.7	13, 200	
	725	WE880	N4	1705/1757	40:00 8/35:00 8	62:00/58:00	60. 9/59. 5	134	215	8.7	12,600	
2 Octo	ber 1958	Mission 12	20									
715	726	WPL593	N1	1230/1425	44:00N/55:53N	71:00	50/60	148	***		404	
PN	727	WPL593 WPL594	N1 N2	1230/1425	• 56:07N/66:00N	71:00			218	25. 2	104,000	
PN	727	WPL595	NZ N3	1427/1600	66:00N/56:00N	71:00 68:30	60/65 66/68	128	218 220	13.1	8,800 2,600	
	729	WPL596	N4	1735/1918	55:53N/44:00N	68:30	68/70	112	218	8. 7 9. 4	6,600	
714	730	WPL773	Ni	1300/1400	44:00N	71:00	40	170	216	24.9	940	
PO	731	WPL774	N2	1406/1506	44:00N	71:00	50	160	206	18.1	35,000	
	732	WPL775	N3	1515/1645	44:00N	71:00	60	135		15.6	1,550,000	1
	733	WPL776	N4	1655/1855	44:00N	71:00	65.6/69	112		11.6	103,000	,
23 Oct	ober 195	3 Mission i	2E									
		WP585	— Ni	1229/1419	44:00N/55:53N	71 80		,,-			<b>_</b>	
* 4 *					AA: 1111 Ni / Sh/ S 3 N	71:00	50.4/59.6	160	217	27, 3	83 000	
715 DN	739										82,000	
715 PN	739 740 741	WP586 WP587	N2 N3	1420/1553	56:07N/66:00N 66:00N/56:07N	71:00 68:30	59. 6/64. 6 64. 8/67. 9	135	217	14.2	14, 100 3, 900	

Isotopes, Inc.

Table 4 2 (continued)

AC No.	HASP	Air Force	Filtez	Time	Latitude	L.ongitude	Altitude	IAS	Temp.	103	dpm/100	
· ····	No.	No.		(Z)		(*W)	(1000 ft.)	(Kt)	(•K)	SCF	Beta	3-90
Octob	er 1958	Mission 13	<u>.</u>									
716	734	WE989	N1	1142/1232	35:00 S/40:23 S	6.3:00	60	135	211	8.6	7,700	68
E\$	735	WE990	NZ	1233/1324	40:30 8/45:43 5	62:00	60	135	214	8.6	7,700	74
	736	WE991	N3	1324/1409	45:50 8/51:23 5	62:00	60	135	215	7.6	8,000	92
	737	WE992	N4	1410/1438	51:30 S/57:00 S	62:00	60	135	215	4.7	6, 700	55
9 Octo	ber 1958	Mission 13	<u>B</u> .									
715	759	WP993	N4	1300/1354	44:00N/38:14N	71:00	50	160	217	15.5	38,000	119
PR	760	WP994	N2	1356/1449	38:00N/32:21N	71:00	50	160	2,15	15.4	290,000	240
	761	WP995	N3	1451/1543	32:07N/26:34N	71:00	50	160	217	14.9	13, 500	28
705	755	WP997	N1	1218/1309	44:00N/38:10N	71:00	55	155	217	12.1	440,000	236
PR	756	WP998	NZ	1311/1401	37:56N/32:07N	71:00	55	155	215	12.0	38,000	128
	757	WP999	N3	1403/1454	31:56N/26:03N	71:00	55	155	208	12.7	112,000	216
	758	WP	N4	1456/1544	25:49N/20:00N	71:00	55	155	203	12. 3	48,000	59
714	751	W1º985	N4	1248/1338	44:00N/38:10N	71:00	60	135	217	8.3	2,900,000	1827
PR	752	WP986	N2	1341/1433	37:56N/32:07N	71:00	60	135	215	8,7	240,000	409
	753	WP987	N4	1526/1617	25:49N/20:00N	71:00	60	135	203	9.2	230,000	273
716	743	WE901	N1	1215/1308	35:00 S/28:26 S	62:00	60	135	208	9. 3	8,400	67
EN	744	WE902	N2	1308/1403	28:26 8/22:00 8	62:00	60	135	208	9.4	17,900	79
	745	WE903	N3	1403/1457	22:00 S/15:50 S	62:00	60	135	198	10.0	14, 300	69
	746	WE904	N4	1457/1549	15:50 S/09:36 S	62:00	60	135	195	9.8	38,000	121
718	747	WE905	N1	1148/1232	35:00 S/40:00 S	62:00	60	135	211	7.5	27,000	96
ES.	748	WE906	N2	1232/1319	40:00 8/46:00 8	62:00	60	135	213	8.0	12, 200	76
	749	WE907	N3	1320/1407	46:008/51:008	62:00	60	135	223	7.6	18, 100	140
5 Nov	ember 19	958 Mission	14									
705	769	WP1969	N1	1456/1542	38:00N/32:46N	64:00	60	135	205	8, 2	15, 100	146
RN	770	WP1970	N2	1544/1630	32: 32N/27: 18N	64:00	60	135	204	8, 3	200,000	351
	771	WP1971	N3	1632/1718	27:04N/21:50N	64:00	60	135	203	8.3	187,000	425
	772	WP1972	N4	1720/1806	21:36N/16:22N	64:00	60	135	203	8.3	180,000	396
715	773	WP1981	N1	1510/1556	06:00 8/00:45 8	64:00	60	140	204	8.7	158,000	370
rs	774	WP1982	N2	1558/1645	00:31 5/04:44N	64:00	60	140	201	9. i	151,000	405
	775	WP1983	N3	1646/1732	04:58N/10:13N	64:00	60	140	203	8.8	149,000	388
	776	WP1984	N4	1734/1820	13:27N/15:42N	64;00	60	140	202	8,8	107,000	227
718	766	WE861	N4	1143/1230	35:00 8/40:00 S	62:00	49.8/60.8		20B	9, 3	14,500	91
ES.	767 768	WE863 WE864	N3 N4	1445/1642 1825/1915	43:12 9/44:50 S 40:00 S/35:00 S	62:00 62:00/58:00	60 50	135 160	219 208	19.2 15.0	8,700 15,200	83 60
717	763	WEB05	N4	1217/1256	35:00 S/40:00 B	62:00	60.4/64.3			5, 2	10, 200	95
E8	764 765	WE807 WE808	N3 N4	1458/1701 1847/1945	41:148/44:00 S 40:00 S/35:00 S	62:00 62:00/58:00	66.7/69.0 61.4/60.2			12.9 10.2	10,700 27,000	125 169
7 Nov	ember 1	.958 Mission	. 44									
714 RS	7 <b>77</b> 7 <b>78</b>	WP1973 WP1974		1519/1609 1611/1701	07:45 S/02:00 S 01:46 B/03:59N	64:00 64:00	60 60	135		9. i 9. i	250,000	446 309
KO	779	WP1975		1703/1753	04:43N/09:58N	64:00	60	138		9.1	166,000 230,000	309 424
	780	WP1976		1755/1852	10:12N/16:45N	64:00	60	138		10.6	103,000	257
716	781	WE941	N1	1225/1313	35:00 S/28:48 S	62:00	60	135	213	8.2	12,500	55
EN	782	WE942	N2	1315/1411	28:348/22:225		60	135		9.5	13, 400	57
	783		N3	1412/1504	22:08 \$/15:56 S	62:00	60	135		9, 2	39,000	197
	784	WE944	N4	1507/1601	15:428/09:30 S	62:00	60	139	207	9. 5	133,000	224
718	785		Ni	1147/1227	35:00 S/40:19 S		60	135			10,800	88
ES	786		NZ	1228/1312	40:338/45:528		60	1 35			8,500	77
	787		N3	1313/1406	46:06 8/51:26 8		60	1 3			7,800	53
	788	WE868	N4	1407/1458	51:40 8/57:00 S	62:00	60	139	5 223	8.2	8, 000	72

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Tinte	Latitude	Longitude	Altitude	IAS	Temp.	103	Total	
	No.	No.		(Z)		(*W)	(1000 ft.)	(Kt)	(*K)	SCF	Beta	Sr
Nove	mber 1958	Mission i	5									
105	797	WP4557	N1	1501/1551	38:00N/27:10N	64:00	60	137	205	9. 1	240,000	30
EN .	798	WP1558	NZ	1636/1729	26:56N/16:34N	t:4:00	60	137	204	9.7	570,000	66
16	789	WE961	N1	1209/1311	35:00 S/28:48 S	62:00	59.5	135	209	10.9	7,600	٤
CN	790	WE962	N2	1313/1407	28:34 8/22;22 5	62:00	60	135	209	9. 4	60,000	1
	791	WE963	N3	1408/1502	22:08 8/15:56 8	62:00	60	135	215	9.1	167,000	3
	792	WE964	N4	1504/1555	15:42 S/09:30 S	62:00	60	135	219	8.4	133,000	2
18	793	WE957	N1	1146/1231	35:00 S/40:40 S	62:00	60	135	211	7.7	7,000	
s	794	WE958	NZ	1233/1317	40:54 S/45:40 S	62:00	60	135	217	.7.3	8,000	
	795	WE959	N3	1319/1358	45:54 8/51:24 8	62;00	60	135	223	6.3	6, 300	
	796	WE960	N4	1400/1441	51:45 8/57:00 S	62:00	60.5	135	227	6.4	8,300	
Nove	mber 1958	Mission	17A									
14	801	WP1124	N1	1301/1357	20:00N/25:17N	71:00	60.5/50.9	160	202	16.9	23,000	
P	802	• WP1125	N2	1357/1450	25:30N/30:47N	71:00	50	160	204	10.3	30,000	
	803	WP1126	N3	1451/1545	31:00N/36:17N	71:00	50	160	205	16.5	27,000	
	804	WP1127	N4	1547/1642	36:30N/41:47N	71:00	50	160	207	16.5	10, 200	
Nove	mber 195	8 Mission	17B									
05	805	WP637	Ní	1212/1306	44:00N/49:15N	71:00	50	160	214	15.8	73,000	
PN	806	WP638	NZ	1308/1401	49: 28N/54: 43N	71:00	50	160	215	15.4	500,000	
	807	WP639	N3	1403/1458	54:56N/60:05N	71:00	50	160	217	15.8	172,000	
	808	WP640	N4	1459/1558	60:18N/66:2BN	71:00	50	160	219	16.8	240.000	
714	809	WP977	Ni	1229/1409	44:00N/55:00N	71:00	60/63, 2	135	218	15.7	86,000	
PN	810	WP978	NZ	1411/1551	55: 13N/66: 13N	71:00	63.2/63.7	127	215	13. 9	6, 800	
	811	WP979	N3	1555/1725	66: 20N/55: 30N	71:00	63.7/66	124	217	11.2	5,900	
	812	WP980	N4	1727/1859	55:16N/44:26N	71:00	66/69	118	220	9. 5	12, 100	
718	813	WPL937	N4	1148/1231	35:00 S/40:00 S	62:00	50/60	148	218	9. 4	4, 500	
ES .	814	WPL939	N3	1434/1634	42: 32 S/44: 57 S	62:00	60	135	221	19.5	4,500	
	815	WPL940	N4	1830/1920	40:00 8/35:00 8	62:00/58:00	50	160	218	14. 3	6,000	
716	816	WPL941	N1	1215/1256	35:00 8/40:00 8	62:00	58.7/61.8	130	218	6. 2	21,000	
ES .	817	WPL929	N3	1500/1628	43:45 S/40:00 S	62:00	64/64, 3	121	221	10.5	12,600	
	818	WPL930	N4	1636/1723	40:00 S/35:00 S	62:00/58:00	57. 3/57	140	217	9. 0	22,000	
0 Nov	ember 195	8 Special 1	<u>10. 2</u>									
705	819	WP973	NI	1310/1355	45: 28N/50: 20N	73:50/75:05	60	135	221	7. 3	75,000	
PN	820	WP974	NZ	1356/1443	50: 26N/55: 17N	75:08/77:44	60	135	220	7.7	29,000	
	821	WP975	N3	1731/1816	54: 48N/50: 00N	66: 49/70: 20	65	121	220	5.3	15,700	
	822	WP976	N4	1817/1904	49:53N/44:39N	70: 25/73: 30	65 •	121	221	5. 5	29,000	
1 Nov	ember 19	8 Mission	17C									
718	823	WE513	Ni	1215/1306	35:00 S/28:48 S	62,00	60	135		8.6	20,000	
EN	824	WE514	N2	1308/1402	28: 34 5/22: 22 5	62:00	60	135		9. 2	33,000	
	825	WE515	N3	1404/1458	22:08 8/15:56 8	62:00	60	135		9. 5	25,000	
	826	WE516	N4	1500/1551	15:24 8/09: 30 S	62:00	60	135	205	9. 1	54,000	
717	827	WE509	N1	1145/1229	35:00 S/40:19 S	62:00	60	135		7.2	8,700	
E5	828	WE510	NZ	1231/1318	40: 33 8/45: 52 8	62:00	60	135		7.7	10,800	
	829	WE511	N3	1320/1406	46:06 S/51:26 S	62:00	60	135		7.5	9, 200	
	830	WE512	N4	1409/1457	51:40 S/57:00 S	62:00	60	135	223	7. 8	8,600	

Table 4, 2 (continued)

LC No.	HASP No.	Air Force No.	Filter	Tirne (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS (Kt)	Temp.	10 ³ SCF	dpm/100 Total Beta	8r ⁹⁰
2 Nover	nber 195	S Mission 1	8									
705	831	WP1553	N1	1204/1250	44:00N/38:15N	71:00	55	155	216	11,0	129, 000	2 3 2
PR	832	WP1554	NZ	1252/1342	38:01N/32:16N	71:00	55	155	208	12.5	107,000	213
	833	WP1555	N3	1344/1434	32:02N/26:17N	71:00	55	155	203	12, 8	59,000	160
714	835	WP1665	N1	1129/1221	44:00N/38:10N	71:00	60	135	215	8.7	114,000	215
PR	836	WP1656	N2	1223/1311	37:56N/32:33N	71:00	60	135	212	8.2	128,000	25
	837 838	₩₽1667 ₩₽1668	N3 N4	1313/1404 1407/1500	32:19N/26:29N 26:15N/20:04N	71:00 71:00	60 60	135 135	210 206	8. 8 9. 4	139, 000 106, 000	23 18
	636	# L 1000	14.4	140771300	20: 1514/ 20:0414	12,50	00	133	200	7. •	100,000	10
Nove	mber 19	58 Mission 1	6									
705	845	WP1072	N1	1455/1546	38:00N/32:08N	64:00	60	135	205	9.1	99,000	24
RN	846	WP1073	NZ	1548/1629	31:54N/27:12N	64:00	60	135	204	7.4	80,000	24
	847	WP1974	N3	1631/1717	26:58N/21:41N	64:00	60	135	204	8.3	93,000	24
	848	WP1075	N4	1719/1805	21:24N/16:10N	64:00	60	135	203	8.3	82,000	20
714	849	WP1128	N1	1510/1556	06:00 S/00:48 S	64:00	60	135	201	8, 4	65,000	18
RS	850	WP1129	N2	1558/1644	00:348/04:38N	64:00	60	135	202	8.3	61,000	18
	851	WP1130	N3	1647/1732	04:52N/10:04N	64:00	60	135	202	8.2	104, 000	28
	852	WP1131	N4	1737/1823	10:38N/15:50N	64:00	60	1.55	203	8. 3	93,000	20
718	842	WE537	N1	1159/1258	35:00 S/40:00 S	62:00	29.8/39.6	170	226	27.9	1,030	
ES	843	WE539	N3	1507/1706	40:00 S	62:00	40	170	213	50, 3	3, 400	
	844	WE540	N4	1718/1849	39:05 S/34:50 S	62:00/58:30	30	170	236	43, 6	≤ 240	
717	839	WE533	N1	1220/1322	35;00 S/40:00 S	62:00	39/50.1	160	211	20, 2	6, 000	
ES	840	WE535	N3	1525/1727	42:20 8/40:30 S	62:00	50.3/50.4	160	214	35.4	11,400	
	841	WE536	N4	1731/1822	40:00 5/35:00 8	62:00/58:00	54.7/55.8	150	214	11, 5	40,000	1
714 RS	853 854 855	WP1625 WP1626 WP1627	N1 N2 N3	1519/1607 1609/1700 1701/1754	07:45 8/02:01 S 01:47 8/03:57N 04:11N/09:55N	64:00 64:00 64:00	60 60	135 135 135	202 202 203	8.7 9.2 9.6	23, 000 35, 000 78, 000	11
	856	WP1628	N4	1755/1841	10:09N/15:53N	64:00	60	135	204	8, 3	81,000	20
717	857	WE545	N4	1215/1306	35:00 5/29:09 8	62:00	60	135	211	8.7	14,000	
EN	858	WE546	NZ	1308/1402	28:55 5/22:53 8	62:00	60	135	207	9. 5	13, 900	1
	859	WE547	N3	1403/1456	22: 39 8/16: 45 8	62:00	60	135	203	9.7	11,800	
	860	WE548	N4	1459/1559	16:31 5/09:30 5	62:00	60	135	202	10.9	13,600	
716	861	WE541	N1	1145/1229	35:00 S/40:19 S	62:00	59. 5	135	213	7.5	23, 000	
ES	862	WE542	N2	1231/1317	40: 33 8/45: 52 8	62,00	60	135	215	7.7	7, 300	
	863	WE543	N3	1319/1405	46:068/51:268	62:00	60	135	216	7. 7	7, 300	
	864	WE544	N4	1407/1453	51:40 8/57:00 8	62:00	60. 5	135	218	7.5	7, 800	
3 Dec	ember 1	958 Mission	20A									
705	865	WP1669	Ni	1455/1541	38:00N/32:43N	64:00	60	136	207	8, 2	61,000	4
RN	866	WP1670	N2	1543/1628	32:29N/27:19N	64:00	60	136	206	8.0	122, 000	3
	867	WP1671	N3	1630/1716	27:05N/21:48N	64:00	60	135	205	8.2	77,000	1
	868	WP1672	N4	1718/1805	21:34N/16:10N	64:00	60	135	204	8.4	44, 000	
714	869	WP1617	N1	1507/1554	06:00 8/00:54 S		60	135	202	8.5	22,000	
RS	870	WP1618	N2	1556/1642	00:40 S/04:19N		60	135		8, 3	43,000	1
	871 872	WP1619 WP1620	N3 N4	1644/1732 1734/1820	04:33N/09:45N 09:59N/14:58N		60 60	135		8.7 8.3	51,000 48,000	1
												,
716	877	WE553	N1	1142/1239	35:00 S/39:50 S		30.4/40	170		25, 1	1,010	
ES	878	WE555	N3	1449/1649	40:05 8/40: 30 5		40	170		50.8	4, 300	
	879	₩ <b>£</b> 556	N4	1655/1809	40:00 S/35:00 S	62:00/58:00	30	170	231	36. 5	780	4
717	880	W£549	N1	1213/1303	35:00 8/39:50 8		40/50	165		17,5	8,600	
ES	881	W£551	N3	1508/1708	41: 37 5/42: 30 9		50	160		34, 1	12, 400	
	882	WE552	N4	1728/1819	40:00 8/35:00 5	62:00/58:00	55	150	216	11.6	17, 200	

Isotopes, Inc.

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Tamp.	103	dpm/100 Total	
	No.	No.		(Z)		(*W;	(1000 ft.)	(Kt)	("K)	SCF	Bets	Sr
Dece	mber 195	8 Mission 2	1									
14	873	WP1088	N1 ·	1522/1612	07:45 8/02:03 8	64:00	60	135	201	9.1	40,000	
s	874	WP1089	N2	1614/1704	01:49 S/03:53N	64:00	60	135	201	9. 1	63,000	11
-	875	WP1090	N3	1706/1756	04:07N/09:49N	64:00	60	135	202	9. 1	57,000	•
	876	WP1091	N4	1758/1848	10:03N/15:45N	64:00	60	135	202	9. 1	63,000	í
18	883	WE561 .	N1	1146/1230	35:00 S/40: 30 S	62:00	60	135	215	7.4	10, 300	
S	884	WE562	N2	1232/1320	40:43 8/46:12 5	62:00	60	135	220	7.8	5, 500	
	885	WE563	N3	1322/1409	46:26 S/51:31 S	62:00	60	135	222	7.6	1, 970	
	886	WE564	N4	1411/1454	51:448/57:00 S	62:00	60	135	224	6. 9	5. 300	
Dece	mber 19	8 Mission 2	22									
05	887	WP1100	N4	1514/1554	38:00N/32:50N	64:00	50	160	204	12.3	19, 900	
N	888	WP1101	NZ	1556/1639	32:37N/28:00N	64:00	50	160	201	13,4	21,000	
	889	WP1102	N3	1651/1726	26: 43N/22: 45N	64:00	50	160	200	11.0	≤ 310	j
	890	WP1103	N4	1813/1836	17:55N/16:05N	6 <b>4</b> ; D <b>0</b>	50	160	197	7.3	8, 200	ک
14	891	WE1308	N1	1512/1600	06:00 S/00: 52 S	64:00	50	160	196	15.4	930	
S	892	WE1309	NZ	1602/1650	00:40 S/04: 28N	64:00	50	160	197	15.3	360	
	893	WE:1310	N3	1653/1742	04:40N/09:48N	64:00	50	160	197	15.6	920	
	894	WE1311	N4	1747/1837	10:19N/15:27N	64:00	50	160	197	16.0	1, 230	
18	911	WE569	N1	1220/1313	35:00 S/28:48 S	62:00	50	160	209	15,9	8, 800	
en	912	WE570	N2	1314/1413	28: 35 S/22: 22 S	62,00	50	160	206	17. B	6, 300	
	913	WE 571	N3	1414/1516	22:098/15:568	62:00	50	160	197	19.8	4, 400	
	914	WE 572	N4	1517/1607	15:43 S/09: 30 S	62:00	50	160	195	16, 1	2,500	
716	915	WE565	N1	1140/1235	35:00 S/40:00 S	62:00	50	160	213	15.9	7,000	
ES	916	WE566	N2	1237/1327	40:148/45:218	62:00	50	160	217	14. 4	B, 600	
55	917	WE567	N3	1329/1418	45: 35 8/51: 26 8	62:00	50	160	221	13, 9	9, 900	
	918	WE568	N4	1421/1509	51:40 8/57:00 8	62:00	50	160	223	13,5	4, 200	
	·			1100,100,	-					23,7	3,200	
Dec	ember 19	58 Mission	<u></u>		•							
705	903	WP1104	N1	1450/1537	38:00N/32:51N	64:00	60	135		8, 3	91,000	
RN	904	WP1105	NZ	1539/1626	32: 37N/27: 26N	64:00	60	135		8.4	106,000	
	905	WP1106	. N3	1628/1715	27:12N/22:03N	64:00	60	135		8,5	59,000	
	906	WP1107	N4	1717/1804	21:49N/16:40N	64:00	60	135	203	8.6	48,000	
714	907	WP1096	N1	1521/1607	07:45 S/02:01 S	64:00	60	140	200	8.9	48,000	
RS	908	WP1097	NZ	1609/1659	01:47 8/03:57N	64:00	60	140	201	9.6	60,000	
	909	WP1098	N3	1707/1751	04:52N/09:55N	64:00	60	140	202	8, 4	82,000	
	910	WP1099	N4	1753/1843	10:09N/15:53N	64:00	60	140		9, 5	96,000	
717	895	WE573	N1	1220/1312	35:00 S/29:08 S	62:00	60	135	211	8, 9	14,700	
EN	896	WE574	N2	1314/1409	28:55 8/23:03 8	62:00	60	135		10,0	10, 800	
211	897	WE575	N3	1410/1508	22:50 8/16:10 8	62:00	60	135		10.8	10, 400	
	898	WE576	N4	1510/1606	15:56 8/09: 30 S	62:00	60	135		10,5	10, 200	
440	800	taren emm	N1	1220/1304	35:00 S/40:50 S	62:00	60	135	215	7.4	£ 200	
718	899	WE577									6,700	
ES	* 900	WE578	N2	1306/1348	41:03 8/46: 31 5	62:00	60	135		7.6	4, 400	
	901	WE579	N3	1350/1438	46:448/52:30 5	62:00	60	139		7.7	6, 600	
	902	W £580	N4	1440/1523	52:43 8/57:06 5	62:00	60	135	233	6.6	8,000	

^{*} HASP No. 900 was exposed an additional 4 minutes at end of flight from 1523 to 1527.

Isotopes, Inc.

	114.00	Ata Sauce	Filter	Time	Latitude	1 ammiéraile	Altitude	IAS	Tem	103	dpm/100	
C No.	HASP No.	Air Force	Finer	(Z)	Latitude	Longitude (*W)	(1000 ft.)	(Kt)	Temp.	SCF	Beta	Sr 90
Dece	mber 195	8 Mission 2	4									
14	927	WP1112	N1	1457/1539	38:00N/33:04N	64:00	55	155	202	10, 8	105,000	279
RN	928	WP1113	N2	1541/1636	32:51N/26:57N	64:00	55	155	199	14. 4	19, 300	41
	929	WP1114	N3	1650/1729	25;27N/21;29N	ú4:00	54.5	155	196	10,6	6,500	16
	930	WP1115	N4	1731/1815	21:16N/16:14N	64:00	55	155	195	11.8	4, 800	9
705	931	WP1192	N1	1517/1607	07:45 S/02:23 S	64:00	55	150	193	12,8	4, 100	13
RS	932	WP1193	N2	1715/1805	04:55N/10:17N	64:00	55	150	193	12.8	3, 200	9
	933	WP1194	N3	1820/1857	11:54N/15:52N	64:00	55	150	195	9. 4	4, 500	10
716	919	WE581	N1	1148/1237	35:00 S/28:48 S	62:00	55	150	210	11.5	11, 100	29
EN	920	WE582	N2	1239/1333	28: 345/22: 225	62:00	55	150	199	13,4	5,500	20
	922	WE584	N4	1434/1528	15: 42 S/09: 30 S	62:00	55	150	195	13.9	1,830	7
717	923	WE585	N1	1216/1301	35:00 S/40:19 S	62:00	55	150	213	10.4	16, 900	71
ES	924	WE586	NZ	1303/1351	40: 33 S/45: 52 S	62:00	55	150	219	10.6	6, 800	54
	925	WE587	N3	1353/1440	46:06 S/51:26 S	62:00	55	150	225	10.1	7,800	62
	926	WE588	N4	1442/1527	51:40 8/57:00 S	62:00	55	150	229	9.5	6, 100	60
19 Dece	mber 19	58 Mission	25									
				4.554.55	40 4444/44 4444							••
714	935	WP1132	Ni	1452/1535	38:00N/32:32N	64:00	64.5	121	207	5. 5	83,000	32
RN	936	WP1133	N2	1537/1623	32:18N/26:58N	64:00	65	121	205	5. 9	155,000	51
	937	WP1134	N3	1626/1712	26:44N/21:16N	64:00	65	121	202	6.0	53, 000	24
	938	WP1135	N4	1715/1801	21:02N/15:34N	64:00	65	121	201	6. 1	86, 000	35
705	939	WP1076	N1	1517/1610	07:45 S/01:45 S	64:00	65	121	203 203	6.9	83,000	32
RS	940	WP1077	NS	1612/1704	01:31 S/04:22N	64:00	65	121		6,8	137,000	44
	941	WP1078	N3	1706/1756	04:36N/10:16N	64:00	65	121	204	6.5	157,000	69
	942	WP1079	N4	1758/1846	10:30N/15:56N	64:00	65	121	204	6. 2	168,000	50
717	943	WE589	N1	1144/1233	35:00 S/28:48 S	62:00	64, 5	121	216	6.0	9,700	5
EN	944	WE590	N2	1235/1330	28: 34 S / 22: 22 S	62:00	65	121	209	7.0	9,600	6
	945	WE591	N3	1332/1430	22:08 5/15:56 8	62:00	65	121	207	7.3	8,500	4
	946	WE592	N4	1432/1525	15; 42 S/09; 30 S	62:00	65	121	207	6.7	12,000	6
718	947	WE593	N1	1216/1302	35:00 S/40:19 S	62:00	65	121	214	5.6	6,800	5
ES	948	WE594	N2	1304/1352	40: 33 S/45: 52 S	62:00	65	121	216	5, 8	5,600	5
	949	WE595	N3 *	1354/1441	46:06 5/51:26 5	62:00	65	121	220	5, 5	5, 200	4
	950	WE596	N4	1443/1531	51:40 S/57;00 S	62:00	65	121	223	5.5	4, 400	4
23 Dec	ember 1	958 Mission	20B									
705	951	WP1144	N1	1552/1641	38:00N/32:38N	64:00	60	135	219	8.1	90,000	
RN	952	WP1145	N2	1643/1732	32:24N/26:56N	(.4:00	60	135		8.5	156,000	31
KN	953	WP1146	N3	1734/1820	26:42N/21:34N	64:00	60	135		8.0	130,000	24
	954	WP1147	N4	1822/1908	21:20N/16:05N	64:00	60	135		8, 2	94, 000	19
716	955	WE597	Ni	1148/1250	35:00 S/39:48 S	62:00	30, 6/40, 2	170	228	28.2	1, 060	
EO	956	WE598	N2	1251/1403	40:00 8/35:00 8	62:00/58:00	40.9/30.4			35.9	1, 000	
EU	956 957	WE578	N4	1705/1805	35:00 S/34:10 S	57:30/59:30	30. 9/30. 1	170		31.2	670	
	731	# 2000			22,00 0, 22,10 3	31,30137;30						
718	958	WE601	N1	1220/1309	35:00 S/39:48 S	62:00	40/50	165		17.8	3, 400	1
ES	959	WE603	N3	1513/1714	41:52 8/42:37 5	62:00	50	160		37.0	6, 300	
	960	WE604	N4	1819/1909	40:00 S/35:00 S	62:00/58:00	55	155	200	13.0	10,400	3

Table 4, 2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	10-	dpm/i.00 Total	
	No.	No.	·····	(Z)		(*W)	(1000 ft.)	(Kt)	(*K)	SCF	Bota	Sr
Janu	ry 1959	Mission 26										
14	977	WP1028	N1	1455/1544	38:00N/32:42N	64;00	49. 9	160	208	14, 8	72,000	21
N	978	WP1029	N2	1545/1639	32:29N/26:53N	64:00	50, 1	160	195	17.4	16, 100	3
	979 980	WP1030 WP1031	N3 N4	1640/1727 1730/1819	26:40N/21:28N 21:15N/15:52N	64:00 64:00	50 50	160 160	193 193	15, 4 15, 9	3, 100 430	≤
	700	WP1031	Na	1/30/1019	21,1314,13,3814						430	_
15	981	WP1032	N1	1510/1602	06:00 S/00:52 S 00:39 S/04:29N	64:00 64:00	53/49.8 49.8/48.8	160 160	195 194	16.6 15.5	1,110 ≤ 300	
S	982 983	WP1033 WP1034	N2 N3	1603/1651 1652/1742	04:42N/09:52N		48,8/49,9	160	193	16.7	≤ 280	≤
	984	WP1035	N4	1743/1833	10:03N/15:11N	64:00	49.9/50.3	160	193	16.3	570	≤
۱7	969	WE625	N4	1145/1243	35:00 5/28:44 5	62:00	50	160	211	17.2	7,000	
N	970	WE626	N2	1245/1343	28: 31 S/22:15 S	62:00	50	160	201	18. 1	1,850	
	971	WE627	N3	1348/1453	22:15 S/28:31 S	62:00	50	160	201	20, 2	2, 300	
	972	WE628	N4	1455/1555	28:44 S/35:00 S	62:00	50	160	211	17.9	6, 800	
8	973	WE629	N1	1217/1308	35:00 S/40:25 S	62:00	50	160	213	14. 9	6, 200	
8	974	WE630	N2	1310/1403	40: 37 S/46: 00 S	62:00	50	160	215	15.4	7, 900	
	975	WE631	N3	1404/1454	46:128/51:348	62:00	50	160	219	14.2	9, 300	
	976	WE632	N4	1456/1547	51:46 S/57:00 S	62:00	50	160	225	14. 1	10, 300	
Janı	ary 1959	Mission 27										
14	993	WP1136	N1	1515/1607	07:45 S/02:01 S	64:00	60	135	200	9. 5	28,000	1
S	994	WP4137	N2	1608/1700	01:47 S/03:57N	64:00	60	135	200	9.5	42,000	1
	995	WP1138	N3	1701/1752	04:41N/09:55N	64:00	60	135	201	9. 3	54, 000	1
	996	WP1139	N4	1753/1845	10:09N/15:53N	64:00	60	135	202	9. 4	50,000	1
18	985	WE637	Ni	1145/1239	35;00 S/28;57 S	62:00	60	135	211	9. 2	7,100	
N	986	WE638	N2	1241/1335	28:27 8/22:19 S	62:00	60	135	209	9.5	7,300	
	987 988	WE639 WE640	N3 N4	1336/1431 1433/1531	22:05 8/15:55 8 15:41 8/09:30 S	62:00 62:00	60 60. 1	135 135	207 207	9. 8 10. 2	7,900 11,900	
16 :8	989 990	WE633 WE634	Ni N2	1214/1303 1305/1352	35:00 S/40:12 S 40:25 S/45:42 S	62:00 62:00	59.7 59.7	135 135	213 215	8, 4 8, 0	11,500 7,200	
	991	WE635	N3	1354/1443	45;55 8/51:14 8	62:00	60	135	219	8. 1	4,700	
	992	WE636	N4	1445/1530	51:27 8/57:00 8	62:00	60	135	223	7.2	5,900	
3 .J <u>a</u> n	uary 1959	Mission 20	c									
				1510/1557	06:00 8700:56 S	64:00	60	135	205	8.3	29, 000	
74.4	997	WP4080	N1					140	207	8.7	41,000	
	997 1000	WP1080 WP1083	N1 N4	1744/1831	10:36N/15:40N	64:00	60				,	
R8	1000	WP1083	N4	1744/1831					222	32.6		,
R <b>S</b> 716					10:36N/45:40N 35:00 S/39:48 S 40:00 S/40:27 S	64:00 62:00 62:00	30/40 40	175 170	222 213	32.6 50.8	350 2, 200	
RS 716	1000	WP1083 WE642	N4 Ni	1744/1831 1149/1256	35:00 5/39:48 5	62:00	30/40	175			350	
716 ES	1000 1001 1002	WE642 WE643	N4 N1 N3	1744/1831 1149/1256 1500/1700	35:00 5/39:48 5 40:00 S/40:27 S	62:00 62:00	30/40 40	175 170 175	213	50.8	350 2, 200	
716 ES 717	1000 1001 1002 1003 1004 1005	WP1083 WE642 WE643 WE644 WE645 WE647	N4 N1 N3 N4 N1 N1	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914	35:00 5/39:48 5 40:00 8/40:27 8 40:00 8/35:00 8 35:00 8/39:48 8 41:24 8/42:30 8	62:00 62:00 62:00/58:00 62:00 62:00	30/40 40 30 40.6/50.8	175 170 175 164 160	213 229 212 214	50.8 34.3 19.0 34.8	350 2, 200 620 3, 400 6, 500	
716 ES 717	1000 1001 1002 1003	WP1083 WE642 WE643 WE644 WE645	N4 N1 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514	35:00 5/39:48 8 40:00 5/40:27 8 40:00 8/35:00 8 35:00 8/39:48 8	62:00 62:00 62:00/58:00	30/40 40 30 40.6/50.8	175 170 175	213 229 212	50.8 34.3 19.0	350 2, 200 620 3, 400	
rs 716 Es 717 Es	1000 1001 1002 1003 1004 1005	WE642 WE643 WE644 WE645 WE647 WE648	N4 N1 N3 N4 N1 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914	35:00 5/39:48 5 40:00 8/40:27 8 40:00 8/35:00 8 35:00 8/39:48 8 41:24 8/42:30 8	62:00 62:00 62:00/58:00 62:00 62:00	30/40 40 30 40.6/50.8	175 170 175 164 160	213 229 212 214	50.8 34.3 19.0 34.8	350 2, 200 620 3, 400 6, 500	
RS 716 ES 717 ES	1000 1001 1002 1003 1004 1005 1006	WE642 WE643 WE644 WE645 WE647 WE648	N4 N1 N3 N4 N1 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914	35:00 5/39:48 5 40:00 8/40:27 8 40:00 8/35:00 8 35:00 8/39:48 8 41:24 8/42:30 8	62:00 62:00 62:00/58:00 62:00 62:00 62:00/58:00	30/40 40 30 40.6/50.8 50 55	175 170 175 164 160 155	213 229 212 214 205	50.8 34.3 19.0 34.8	350 2, 200 620 3, 400 6, 500 8, 200	٠
RS 716 ES 717 ES 6 Jan 714	1000 1001 1002 1003 1004 1005 1006 1006	WP1083 WE642 WE643 WE644 WE645 WE645 WE648 9 Mission 2' WP1180 WP1180	N4 N1 N3 N4 N1 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039	35:00 5/39:48 5 40:00 5/40:27 5 40:00 5/35:00 5 35:00 5/39:48 5 41:24 5/42:30 5 40:00 5/35:00 5	62:00 62:00 62:00/58:00 62:00 62:00 62:00/58:00 64:00 64:00	30/40 40 30 40.6/50.8 50 55	175 170 175 164 160 155	213 229 212 214 205	50.8 34.3 19.0 34.8 13.1	350 2, 200 620 3, 400 6, 500 8, 200	•
RS 716 ES 717 ES 6 Jan 714	1000 1001 1002 1003 1004 1005 1006 1006	WP1083 WE642 WE643 WE644 WE645 WE647 WE648  Mission 2	N4 N1 N3 N4 N1 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717	35:00 5/39:48 5 40:00 8/40:27 8 40:00 8/35:00 8 35:00 8/39:48 8 41:24 8/42:30 8 40:00 8/35:00 8	62:00 62:00 62:00/58:00 62:00 62:00 62:00/58:00	30/40 40 30 40.6/50.8 50 55	175 170 175 164 160 155	213 229 212 214 205	50.8 34.3 19.0 34.8 13.1	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000	,
746 ES 747 ES 6 Jan 714 RN	1000 1004 1002 1003 1004 1005 1006 1006 1007 1008 1009 1010	WP1083 WE642 WE643 WE644 WE645 WE645 WE648 9 Mission 2 WP1180 WP1181 WP1182 WP1181	N4 N1 N3 N4 N1 N3 N4 N1 N3 N4 N1 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717 1719/1806	35:00 S/39:48 S 40:00 S/40:27 S 40:00 S/35:00 S 35:00 S/39:48 S 41:24 S/42:30 S 40:00 S/35:00 S  38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/21:40 N 21:26 N/16:04 N	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 62:00/58:00 64:00 64:00 64:00	30/40 40 30 40.6/50.8 50 55 64.5 65 65	175 170 175 164 160 155 121 121 121	213 229 212 214 205 208 208 207	50.8 34.3 19.0 34.8 13.1	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000 75, 000	
R8 716 ES 717 ES 6 Ja: 714 RN	1000 1001 1002 1003 1004 1005 1006 1006 1007 1008 1009 1010	WP1083 WE642 WE643 WE644 WE645 WE647 WE648 9 Mission 2 WP1180 WP1181	N4 N1 N3 N4 N1 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717	35:00 5/39:48 S 40:00 S/40:27 S 40:00 S/35:00 S 35:00 S/39:48 S 41:24 S/42:30 S 40:00 S/35:00 S  38:00 N/32:38 N 32:24N/27:16 N 27:02N/24:40 N 21:26N/16:04 N 07:45 S/02:03 S	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 64:00 64:00 64:00	30/40 40 30 40.6/50.8 55 56 64.5 65 65	175 170 173 164 160 155	213 229 212 214 205 208 208 207 207	50.8 34.3 19.0 34.8 13.1	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000	•
RS 716 ES 717 ES 6 Ja: 714 RN	1000 1004 1002 1003 1004 1005 1006 1006 1007 1008 1009 1010	WP1083 WE642 WE643 WE644 WE645 WE647 WE648 9 Mission 2 WP1180 WP1181 WP1181 WP1181 WP1181 WP1183	N4 N1 N3 N4 N1 N3 N4 N1 N3 N4 N1	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717 1719/1806	35:00 S/39:48 S 40:00 S/40:27 S 40:00 S/35:00 S 35:00 S/39:48 S 41:24 S/42:30 S 40:00 S/35:00 S  38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/21:40 N 21:26 N/16:04 N	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 64:00 64:00 64:00 64:00	30/40 40 30 40.6/50.8 50 55 64.5 65 65	175 170 175 164 160 155 121 121 121 121 121 121	213 229 212 214 205 208 208 207 207 207 205	50.8 34.3 19.0 34.8 13.1	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000 75, 000	
R8 716 ES 717 ES 6 Ja: 714 RN	1000 1001 1002 1003 1004 1005 1006 1006 1008 1008 1009 1010	WP1083 WE642 WE643 WE644 WE645 WE647 WE648 9 Mission 2' WP1180 WP1181 WP1182 WP1181 WP1181	N1 N1 N3 N4 N1 N3 N4 N1 N2 N1 N2 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717 1719/1806 1809/1859	35:00 8/39:48 8 40:00 8/40:27 8 40:00 8/35:00 8 35:00 8/39:48 8 41:24 8/42:30 8 40:00 8/35:00 8 38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/24:40 N 21:26 N/16:04 N 07:45 8/02:35 N	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 62:00/58:00 64:00 64:00 64:00 64:00 64:00	30/40 40 30 40.6/50.8 50 55 64.5 65 65 65	175 170 175 164 160 155 121 121 121 121 121	213 229 212 214 205 208 208 207 207 207 205	50.8 34.3 19.0 34.8 13.1 6.1 6.0 6.1 6.0 6.3	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000 75, 000 82, 000	
R8 716 ES 717 ES 6 Ja: 714 RN	1000 1001 1002 1003 1004 1006 1006 1007 1008 1009 1010 1011 1012 1012	WP1083 WE642 WE643 WE644 WE645 WE645 WE648 9 Mission 2 WP1180 WP1181 WP1182 WP1187 WP1187 WP1116	N1 N3 N4 N1 N3 N4 N1 N3 N4 N1 N2 N3 N4 N1 N3	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717 1719/1806 1809/1859 1901/1950	35:00 5/39:48 5 40:00 S/40:27 S 40:00 S/35:00 S 35:00 S/39:48 S 41:24 S/42:30 S 40:00 S/35:00 S  38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/21:40 N 21:26 N/16:04 N 07:45 S/02:03 S 01:49 S/03:53 N 04:07 N/09:49 N	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 62:00/58:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00	30/40 40 30 40.6/50.8 50 55 64.5 65 65 65 65	175 170 175 164 160 155 121 121 121 121 121 121	213 229 212 214 205 208 207 207 207 205 205 206	50.8 34.3 19.0 34.8 13.1 6.1 6.0 6.1 6.0	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000 75, 000 82, 000 112, 000	
R8 716 E8 717 E8 6 Jan 714 RN	1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1014	WP1083 WE642 WE643 WE644 WE647 WE647 WE648  9 Mission 2' WP1180 WP1181 WP1182 WP1183 WP1116 WP1117 WP1118 WP1119 WE652 WE649	N4 N1 N3 N4 N1 N3 N4 N1 N2 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717 1719/1806 1809/1859 1901/1950 1954/2043 1143/1236 1238/1332	35:00 8/39:48 8 40:00 8/40:27 8 40:00 8/35:00 8 35:00 8/39:48 8 41:24 8/42:30 8 40:00 8/35:00 8 38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/21:40 N 21:26 N/36:04 N 07:45 8/02:03 8 04:07 N/09:49 N 10:03 N/15:45 N 38:00 8/28:47 8 28:34 8/22:21 8	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 62:00/58:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00	30/40 40 30 40.6/50.8 50 55 64.5 65 65 65 65 65 65 65 65	175 170 175 164 160 155 121 121 121 121 121 121 121 121 121	213 229 212 214 205 208 208 207 207 205 205 205 205 205 205 205 205 205 205	50.8 34.3 19.0 34.8 13.1 6.1 6.0 6.1 6.3 6.3 6.3 6.3 6.3	350 2,200 620 3,400 6,500 8,200 21,000 18,800 45,000 75,000 82,000 112,000 91,000 7,400 6,400	
R8 716 E8 717 717 714 RN 705 RS	1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017	WP1083 WE642 WE643 WE644 WE645 WE647 WE648 9 Mission 2' WP1181 WP1181 WP1182 WP1181 WP1116 WP1116 WP1116 WP1116 WP1116 WE652 WE6549	N4 N1 N3 N4 N1 N3 N4 N1 N2 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717 1719/1806 1809/1859 1901/1950 1954/2043 1143/1236 1238/1332 1335/1431	35:00 S/39:48 S 40:00 S/40:27 S 40:00 S/35:00 S 35:00 S/39:48 S 41:24 S/42:30 S 40:00 S/35:00 S  38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/24:40 N 21:26 N/16:04 N 07:45 S/02:03 S 01:49 S/03:53 N 04:07 N/09:49 N 10:03 N/15:45 N 38:00 S/28:47 S 28:34 S/22:21 S 22:08 S/15:55 S	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 62:00/58:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00	30/40 40 30 40.6/50.8 50 55 65 65 65 65 65 65 65 65 65 65	175 170 175 164 160 155 121 121 121 121 121 121 121 121 121	213 229 212 214 205 208 208 207 207 205 205 205 206 213 213 213	50.8 34.3 19.0 34.8 13.1 6.1 6.0 6.1 6.0 6.3 6.3 6.3 6.3 6.5 6.6	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000 75, 000 82, 000 112, 000 91, 000 7, 400 7, 900	
716 E8 717 E8 6 Jan 714 RN 705 RS	1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1014	WP1083 WE642 WE643 WE644 WE647 WE647 WE648  9 Mission 2' WP1180 WP1181 WP1182 WP1183 WP1116 WP1117 WP1118 WP1119 WE652 WE649	N4 N1 N3 N4 N1 N3 N4 N1 N2 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717 1719/1806 1809/1859 1901/1950 1954/2043 1143/1236 1238/1332	35:00 8/39:48 8 40:00 8/40:27 8 40:00 8/35:00 8 35:00 8/39:48 8 41:24 8/42:30 8 40:00 8/35:00 8 38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/21:40 N 21:26 N/36:04 N 07:45 8/02:03 8 04:07 N/09:49 N 10:03 N/15:45 N 38:00 8/28:47 8 28:34 8/22:21 8	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 62:00/58:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00	30/40 40 30 40.6/50.8 50 55 64.5 65 65 65 65 65 65 65 65	175 170 175 164 160 155 121 121 121 121 121 121 121 121 121	213 229 212 214 205 208 208 207 207 205 205 205 206 213 213 213	50.8 34.3 19.0 34.8 13.1 6.1 6.0 6.1 6.0 6.3 6.3 6.3 6.3 6.5 6.6	350 2,200 620 3,400 6,500 8,200 21,000 18,800 45,000 75,000 82,000 112,000 91,000 7,400 6,400	
716 716 717 717 718 714 705 717 EN	1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018	WP1083 WE642 WE643 WE644 WE645 WE647 WE648 9 Mission 2' WP1180 WP1181 WP1182 WP1183 WP1119 WE652 WE650 WE650 WE669	N4 N1 N3 N4 N1 N3 N4 N1 N2 N3 N4 N1	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1339/1627 1629/1717 1719/1806 1809/1859 1901/1950 1954/2043 1143/1236 1238/1332 1335/1431 1432/1525	35:00 S/39:48 S 40:00 S/40:27 S 40:00 S/35:00 S 35:00 S/39:48 S 41:24 S/42:30 S 40:00 S/35:00 S  38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/21:40 N 21:26 N/16:04 N 07:45 S/02:03 S 01:49 S/03:53 N 04:07 N/09:49 N 10:03 N/15:45 N 38:00 S/28:47 S 28:34 S/22:21 S 22:08 S/15:55 S 15:43 S/09:30 S 35:00 S/40:19 S	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 62:00/58:00 64:00 64:00 64:00 64:00 64:00 64:00 62:00 62:00 62:00 62:00	30/40 40 30 40.6/50.8 50 55 64.5 65 65 65 65 65 65 65 65 65	175 170 170 175 164 160 155 121 121 122 123 124 124 124 124 124 124 124 124 124 124	213 229 212 214 205 208 207 207 207 207 205 205 205 205 205 205 205 205 207 207 207 207 207 207 207 207 207 207	50.8 34.3 19.0 34.8 13.1 6.1 6.0 6.1 6.0 6.3 6.3 6.3 6.3 6.5 6.8	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000 75, 000 80, 000 82, 000 112, 000 91, 000 7, 100 6, 100 7, 900 16, 700	
714 RN 705 RS	1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1012 1012 1013 1014 1016 1017 1018	WP1083 WE642 WE643 WE644 WE645 WE647 WE648  MISSION 2.  WP1180 WP1181 WP1181 WP1117 WP1118 WP1119 WE652 WE649 WE650 WE651	N4 N1 N3 N4 N1 N3 N4 N1 N2 N3 N4	1744/1831 1149/1256 1500/1700 1704/1810 1420/1514 1714/1914 1947/2039 1451/1538 1539/1627 1629/1717 1719/1806 1717/1806 1809/1859 1901/1950 1954/2043 1139/1236 1238/1332 1335/1431 1432/1525	35:00 5/39:48 S 40:00 S/40:27 S 40:00 S/35:00 S 35:00 S/39:48 S 41:24 S/42:30 S 40:00 S/35:00 S  38:00 N/32:38 N 32:24 N/27:16 N 27:02 N/21:40 N 21:26 N/46:04 N 07:45 S/02:03 S 04:07 N/09:49 N 10:03 N/45:45 N 38:00 S/38:45 S 28:34 S/22:21 S 22:08 S/15:55 S 15:43 S/09:30 S	62:00 62:00/58:00 62:00/58:00 62:00 62:00/58:00 64:00 64:00 64:00 64:00 64:00 62:00 62:00 62:00 62:00	30/40 40 30 40.6/50.8 50 55 64.5 65 65 65 65 65 65 65 65 65 65	175 170 175 164 160 155 121 121 122 123 124 124 124 124 124 124 124 124 124 124	213 229 212 214 205 208 208 207 207 205 205 205 205 217 213 213 213 213 213 213	50.8 34.3 19.0 34.8 13.1 6.1 6.0 6.1 6.0 6.3 6.3 6.3 6.3 6.5 6.6 6.5	350 2, 200 620 3, 400 6, 500 8, 200 21, 000 18, 800 45, 000 75, 000 82, 000 112, 000 91, 000 7, 400 6, 400 7, 900 16, 700	

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	dpm/100 Total	
	No.	No.	**************************************	(Z)		(•M)	(1000 ft.)	(Kt)	(•K)	SCF	Beta	Sr ⁹⁰
Janue	1959	Mission 30A	<u> </u>									
14	1023	WP1172	N1	1228/1318	20:00N/25:49N	74:00	64/65	124	206	6,6	64,000	288
ĮΡ.	1024	WP1173	N2	1320/1412	26:03N/31:52N	71:00	65/65.5	121	208	6.6	48,000	290
	1025	WP1174	N3	1412/1504	32:07N/37:56N	71:00	65.5/66.5	120	213	6.0	37,000	245
	1026	WP1175	N4	1505/1554	38:10N/44:00N	71;00	66, 5/66, 5	117	213	5.5	13, 200	<b>\$</b> 39
Janus	ry 1959	Mission 301	<u> </u>									
18	1027	WE681	N1	1147/1245	35:00 S/28:36 S	62:00	50	160	203	17.9	2,500	12
N	1028	WE682	N2	1246/1348	28: 30 S/22: 22 S	62:00	49. 6	160	203	19.3	810	
	1029 1030	WE683 WE684	N3 N4	1350/1447 1448/1547	22:09 S/15:58 S 15:52 S/09: 30 S	62:00 62:00	50 50	160 160	203 201	17.6 18,4	≤ 193 ≤ 250	<
17	1034	WE677	N1	1215/1304	35:00 S/40:24 S	62:00	49, 8/50, 6	160	213	14.3	5, 200	2
S	1032	WE678	N2	1306/1355	40: 37 8/45: 57 8	62:00	49.8/50.4	160	216	14, 1	5, 100	3
	1033	WE679	N3	1356/1446	46:118/51:358	62:00	50.1/49.8	160	219	14.4	5,600	2
	1034	WE680	N4	1448/1535	51:48 S/57:00 S	62:00	49.8/49.4	160	223	13.2	6, 700	4
Janu	ary 1959	Mission 30	<u>D</u>									
714	1035	WP1288	N1	1140/1230	44:00N/38:26N	71:00	60	135	213	8.5	49,000	26
₽R	1036	WP1287	N2	1232/1322	38:12N/32:38N	71:00	60	135	212	8.4	48,000	24
	1037	WP1285 WP1286	N3	1324/1415 1417/1505	32:24N/26:50N 25:56N/20:22N	71:00	60	135	208 206	9.0	52,000	2
	1038	W P1280	N4	141//1909	25:56N/2U:22N	71:00	60	135	200	8, 5	58,000	1
Janu	ary 1959	Mission 28										
714	1039	WP1120	N1	1225/1312	16:00N/20:50N	64:00	55	150	193	12.1	5, 900	
RN	1040	WP1121 WP1122	NZ	1314/1400 1402/1449	21:03N/25:56N	64:00	55	150	193	11.8	4,000	
	1041	WP1122	N3 N4	1454/1642	26:09N/31:11N 31:36N/36:38N	64:00 64:00	55 55	150 150	· 200	12. 1 11. 9	13, 300 32, 000	1
705	1043	WP1064	N1	1153/1242	16:00N/10:14N	64:00	55	155	193	13.2	5, 100	
RS	1044	WP1065	N2	1244/1333	10:00N/04:14N	64:00	55	155	193	13.4	11, 200	
717	1047	WE689	N1	1213/1308	35:00 8/28:47 S	62;00	55	155	203	14. 1	3, 600	
EN	1048	W10690	N2	1309/1404	28: 34 8/22: 21 8	62:00	55	155	203	14, 1	2, 900	
	1049	WE691	• N3	1409/1501	21:47 8/15:55 8	62:00	55	155	201	13, 5	1,620	
	1050	WE692	N4	1502/1557	15:43 8/09:30 8	62:00	55	155	200	14, 3	2. 300	
716 ES	1051 1052	WE701 WE702	N1 N2	1308/1353 1385/1441	35:00 8/40:19 8 40:32 8/45:51 8	62;00 62:00	55 55	155 155		11, 3 10, 7	5, 800 6, 700	
	1053	WE703	N3	1443/1528	46:048/51:238	62:00	55	155		10. 3	5, 400	
	1054	WE704	N4	1743/1803	40:00 B/35:00 B	62:00/58:00	66/67.5			5. 1	5, 200	
3 Feb	ruary 19	59 Mission	30E									
715	1063	WP1273	Ni	1239/1327	16:00N/21:12N	64:00	48.6/50.6	160	195	15.5	<b>≤ 890</b>	
RN	1064	WP1274	N2	1329/1418	21:25N/26:43N	64:00	50.6/49	160	196	15.7	1, 460	
	1065	WP1275	N3	1424/1512	27:16N/31:55N	64:00	49/47.8	160	201	15. 2	≤ 1,290	
714	1067	WP1269	N1	1158/1247	16:00N/10:42N	64:00	50	160		15.8	≤ 1,090	
RS	1068	WP1270	NZ	1249/1338 1342/1429	10:29N/05:11N	64:00	50 50	160		15.8	1, 270	
	1069 1070	WP1271 WP1272	N3 N4	1431/1521	04;45N/00;19 S 00:32 S/05;56 S	64;00 64;00	50 50	160		15. 1 16. 1	≤ 680 ≤ 1,070	
716	1055	WE717	Ni	1143/1241	35:00 S/28:49 S	62:00	50	160	205	17.7	780	
EN	1056	WE718	N2	1243/1341	28: 36 S/22: 25 S	62:00	50	160		17.9	640	
	1057	WE719	N3	1343/1441	22:12 8/16:01 8	62:00	50	160		47.9	600	
	1058	WE720	N4	1443/1540	15:48 8/09:30 8	62:00	50	160	201	17.8	≤ 260	
717	1059	WE721	N1	1213/1303	35:00 8/40:22 8		50	160		15.0	2, 600	
E9	1060		N2	1305/1355	40: 35 S/45: 59 S		50	160		14.5	4, 800	
	1061	WE723	N3	1356/1446	46:10 8/51:32 8		50	160		14.2	5, 500	
	1962	WE724	N4	1448/1537	51:45 8/57:00 S	62:00	50	160	0 217	14. 1	5,700	

isotopes, Inc.

6 Febru 714 RN 705 RS	1071 1072 1073	Mission 3:	<u>.</u>	(Z)		( <b>.</b> w)	(1000 ft.)	(Kt)	(,K)	SCF	Beta	5x90
R.N 705	1072	WD1305										
R.N 705	1072	W P 1 3 U 3	N1	1235/1318	16:00N/21:02N	64:00	59.3	135	194	8. 3	36,000	10
	1073	WPi306	N2	1320/1408	21:15N/26:23N	64:00	60	135	194	9, 4	32,000	10
		WP1307	N3	1410/1456	26:36N/31:32N	64:00	60	135	195	8, 7	39,000	14
	1074	WP1308	N4	1458/1553	31:45N/37:53N	64:00	59.6	135	200	10.2	45,000	15
RS	1075	WP1301	N1	1151/1245	16:00N/09:58N	64:00	60	135	193	10,4	33,000	13
	1076	WP1302	N2	1247/1336	09: 14N/04:02N	64:00	60	135	194	9. 2	19,400	7
	1077 1078	WP1303 WP1304	N3 N4	1338/1426	03:48N/01:40 5	64:00	60 60	135	194	9. 1	16, 900	
	10/8	W P1304	N4	1428/1522	01:54S/07:42S	64:00	60	135	195	10, 2	13,700	4
716	1079	WE725	N1	1140/1234	35:00 S/28:47 S	62:00	60	135	209	9.4	7,500	ε
EN	1080	WE726	N2	1236/1330	28: 33 S/22: 21 S	62:00	*60	135	209	9.4	5, 300	- 4
	1081	WE727	N3	1332/1427	22:08 5/15:55 5	62:00	60	135	207	9.7	5, 300	3
	1082	₩E728	N4	1429/1523	15: 43 S/09: 30 S	62:00	60	135	207	9.5	7, 300	3
718	1083	WE729	N1	1215/1303	35:00 8/40:12 8	62:00	60	135	208	8.4	5, 200	4
ES	1084	WE730	NS	1305/1352	40:25 S/45:51 S	62:00	60	135	213	7.9	4, 200	2
	1085	WE731	N3	1354/1442	46:04 S/51:02 S	62:00	60	135	217	8.0	5, 200	- 6
	1086	WE732	N4	1444/1534	51:15 S/57:00 S	62:00	60	135	221	8. 2	5, 500	1
0 Febr	uary 195	9 Mission 3	2_									
715	1095	WP1417	N1	1153/1245	16:00N/10:24N	64:00	55	154	194	13.8	1,830	ک
RS	1096	WP1419	N2	1247/1335	10:11N/04:55N	64:00	55	155	195	12,8	1,740	
	1097	WP1420	N3	1337/1433	04:42N/01:13S	64:00	55	155	195	15.0	1,610	
	1098	WP1418	N4	1435/1532	01:268/07:348	64:00	55	155	195	15.2	1, 130	
718	1087	WE741	N1	1145/1239	35:00 S/28:47 S	62:00	55	155	209	13.4	3, 200	
EN	1088 1089	WE742	NZ	1241/1333	28: 33 8/22: 35 8	62:00	55	155	201	13.5	2, 100	
	1090	WE743 WE744	N3 N4	1335/1433 1435/1535	22: 22 8/15: 55 8 15: 43 8/09: 30 S	62:00 62:00	55 55	155 155	201 201	15, 2 15, 4	2, 200 i, 9 <b>i</b> 0	
717	1091	WE737	Ni	1210/1258	35:00 8/40:19 S	62:00	55	155	209	11.9	6, 200	
ES	1092	WE738	N2	1300/1346	40: 32 8/45: 54 8	62:00	55	155	216	11.0	6, 300	
	1093	WE739	N3	1348/1432	46:048/51:008	62:00	55	155	219	10.3	6, 800	
	1094	WE740	N4	1434/1524	51:148/57:008	62:00	55	155	219	11,8	5,000	
14 Feb:	ruary 19	59 Mission	33_									
715	1107	WP1465	N1	1225/1313	16:00N/21:14N	,64;00	65	121	204	6, 3	47,000	2
RN	1108	WP1466	N2	1315/1402	21:27N/26:41N	64:00	65	121	207	5. 9	51,000	- 1
	1109	WP1467	N3	1405/1454	26:54N/32:14N	64:00	65	121	209	6, 2	33, 000	1
	1110	WP1468	N4	1459/1545	32:27N/37:54N	64;00	65	121	211	6. 1	29,000	1
705	1111	WP1464	N1	1155/1243	16:00N/10:16N	64:00	64, 4	121	204	6.6	58,000	2
R.S	1112	WP1462	N2	1245/1335	10:02N/04:18N	64:00	64. 6	120	204	6.4	57,000	2
	1113	WP1463	N3	1337/1426	04:04N/01:32 S	64:00	64. 9	121	204	6.3	41,000	- 1
	1114	WP1198	N4	1428/1520	01:468/07:428	64:00	65	121	204	6.7	41,000	1
717	1099	WE745	N1	1141/1240	35:00 S/28:47 S	62:00	63/65	121	213	7.5	4, 800	
EN	1100	WE746	N2	1242/1336	28: 33 8/22: 21 8	- 62:00	65	121	208	6.8	6, 400	
	1101	WE747	N3	1338/1435	22:08 8/15:55 8	62:00	65	121	208	7.2	9,700	
	1102	WE748	N4	1437/1531	15: 43 8/09: 30 8	62;00	65	121	208	6.8	13, 800	
718	1103	WE749	N1	1214/1300	35:00 S/40:19 S		63.2/64.9		215	6.3	4, 400	
ES	1104	WE750 WE751	N2 N3	1302/1349 1351/1441	40: 32 8/45:51 8		64, 8	121	217	5.7	4, 900	
	1105	WE752	N4	1443/1530	46:04 8/51: 30 8 51:43 8/57:00 8		64. B 64. B	121 121	219 221	6, 0 5, 5	4, 800 5, 200	
45 m. t		NEO Minal	24									
	bruary 19											
715 RS	1121	WP1473 WP1474	N1 N2	1153/1245 1247/1310	16:00N/10:18N 10:05N/07:17N		55 55	155	-,-	14.2	2, 600	
					10:03N/U/:17N	69;00	20	155	191	6.4	3, 400	
	1115	WE761 WE762	N1	1145/1238	35:00 5/28:47 5		55	155		13.5	2,500	
716	1116	WE762 WE763	N2 N3	1240/1344 1350/1440	28: 33 S/22: 21 S 22: 21 S/28: 33 S	62:00	55	152		16.6	2,600	
716 EN	1117	W T-74.7				62:00	55	156	203	12. 9	3, 200	

Isotopes, Inc.

AC No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	1AS	Temp.	103	Total	
	No.	No.		(2)		(•W)	(1000 ft,)	(Kt)	(*K)	SCF	Beta	Sr ⁹⁰
Febru	ary 1959	Mission 3	<u>.</u>									
114	1125	WP1561	Ni	1234/1321	16:00N/21:28N	64:00	63.7/64.8	121	211	5.9	58, 000	241
RN	1126	WP1562	N2	1323/1409	21:42N/27:10N	64:00	64.8/65	121	211	5, 7	43,000	218
	1127	WP1563	N3	1411/1457	27:24N/32:52N	64:00	65	121	210	5.8	31,000	217
	1128	WP1564	N4	1459/1540	33:06N/37:58N	64:00	65	122	213	5.1	35,000	175
715	1129	WP1673	NI	1153/1245	16:00N/10:16N	64:00	65	121	209	6.5	66,000	291
rs	1130	WP1674	N2	1248/1335	10:02N/04:18N	64:00	65	121	206	6.0	58,000	188
	1131	WP1675	N3	1337/1427	04:04N/01:40 S	64:00	65	121	206	6.4	43,000	103
	1132	WP1676 .	N4	1429/1520	01:545/07:445	64:00	65	121	206	6.5	36,000	160
716	1133	WE765	Ni	1140/1234	35:00 B/28:47 S	62:00	64/65	121	209	6.9	5,800	52
EN	1434	WE766	N2	1236/1329	28:33 8/22:21 8	62:00	65	121	203	6.9	6, 500	50
	1135	WE767	N3	1331/1426	22:08 S/15:55 S	62:00	65	121	207	7.0	11,100	72
	1136	WE768	N4	1428/1522	15.43 8/09: 30 5	62:00	45	121	207	6.8	22,000	111
717	1137	WE769	Ni	1215/1305	35:00 8/40:28 S	62:00	48.2/47.9	162	211	16.0	3, 900	18
E\$	1138	WE770	NZ	1307/1359	40:41 5/46:04 5	62:00	48.1/48.2	162	217	16, Z	5, 100	27
	1139	WE?71	N3	1401/1454	46:178/51:318	62:00	47,9/48,2	162	221	15,9	6, 300	29
	1140	WE772	N4	1456/1550	51:43 8/57:00 8	62:00	48/48.2	161	225	15,8	4, 900	24
4 Febr	uary 195	9 Mission 3	16_									
714	1149	WP1713	Ni	1222/1312	16:00N/21:27N	64:00	64, 3/65	121	208	6, 3	56,000	23
RN	1150	WP1714	N2	1313/1358	21:41N/26:47N	64:00	65/66	121	209	5.6	52,000	23
	1151	WP1715	N3	1405/1446	27:35N/32:21N	64:00	66/66.2	118	210	4,7	42,000	24
	1152	<b>WP1716</b>	N4	1447/1533	32:35N/37:55N	64;00	66/66.6	118	211	5, 2	66,000	30
715	1153	WP1749	Ni	1151/1241	16:00N/10:14N	64:00	61.8/66	120	205	6.6	55.000	23
RS	1154	WP1750	N2	1243/1333	10:00N/04:14N	64;00	66, 2/67, 4	117	206	5.7	69,000	34
	1155	WP1751	N3	1335/1425	04:00N/01:46 S	64:00	. 67.4/68.2	115	206	5, 3	60,000	31
	1156	WP1752	N4	1427/1517	02:00 8/07:55 8	64:00	68.2/69	112	206	5, 1	52,000	24
716	1141	WE785	Ni	1145/1239	35:00 8/28:47 S	62:00	63, 3/65, 3	124	205	7.4	5,700	4
EN	1142	WE786	NZ	1241/1334	28:33 8/22:21 8	62:00	65.3/66.2	-118	205	6.4	6, 500	5
	1143	WE787	N3	1336/1431	22:08 8/15:55 8	62:00	66.2/67.5	116	205	6. 2	7,700	5
	1144	WE788	N4	1433/1528	15:43 S/09:30 S	62:00	67.5/68.5	113	205	5.7	35,000	17
718	1145	WE773	N1	1210/1258	35:00 8/40:19 8	62:00	55	155	209	11.9	5,500	3
E9	1146	WE774	N2	1260/1335	40: 32 5/45: 51 8	62:00	55	155	211	11.1	7, 300	4
	1147	WE775	N3	1337/1424	46:04 8/51:23 8	62:00	55	155	213	11.5	6,800	4
	1148	WE?76	N4	1426/1506	51:36 8/57:00 8	62:00	55	155	215	9.7	7,800	• 6
28 Feb:	ruary 19	59 Mission	37									
705	1157	WP2057	N1	1224/1311	16:00N/21:24N	64:00	55	155	196	12.5	4,000	4
RN	1158	WP2058	N2	1313/1331	21:38N/23:28N	64:00	55	155		4, 8	3, 100	1
715	1161	WP2061	N1	1206/1256	16:00N/10:18N	64:00	57.4/55.8	155	196	13.0	2, 500	
RS.	1162	WP2062	N2	1258/1347	10:04N/04:22N	64:00	55, 6/55	155	196	13.0	6,600	1
	1163	WP2063	N3	1349/1439	04:08N/01:34 S	64:00	54.8/55	155	195	13.3	1,600	
	1164	WP2064	N4	1441/1532	01:48 5/07:37 5	64:00	55/55.2	155	194	13.8	1,770	
718/EN	1165	WE789	N1	1140/1235	35:00 8/28:47 S	62:00	55	155	205	14.0	2,600	4
716	1167	WE793	Ni	1210/1255	35:00 8/40:198		62.5/64.9			5.7	5, 100	9
es	1168	WE794	SN	1256/1345	40: 32 5/45: 51 8		64. 9/64, 8			5. 9	5, 700	7
	1169	WE795	N3	1346/1437	46:045/51:238		64. 9/65	121		6.0	5, 800	6
	1170	₩£796	N4	1440/1627	51:36 5/57:00 8	62:00	64. 4/66. 4	121	225	12.4	5, 300	

Table 4.2 (continued)

C No.	HASP No.	Air Force	Filter	Time (2)	Latitude	Longitude (*W)	Altitude (1000 ft.)	ïAS (Kt)	Temp, (*K)	10 ³ SCF	Total Beta	Sz 90
Marc	h 1959	Mission 38										
715	1179	WP2069	N1	1225/1311	16:00N/21:12N	64:00	65	121	206	5, 9	47,000	262
RN	1180	WP2070	N2	1313/1400	21:26N/26:44N	64:00	65	121	208	5.9	49,000	280
·····	1181	WP2071	N3	1405/1451	27:18N/32:30N	64:00	65	121	204	6.0	50,000	252
	1182	WP2072	N4	1453/1539	32:44N/37:56N	64:00	65	121	204	6.0	37,000	227
14	1183	WP2065	N1	1152/1243	16:00N/10:24N	64:00	64.5	122	204	6.8	54,000	282
RS	1184	WP2066	N2	1245/1339	10:11N/04:33N	64:00	65	121	201	7.2	42,000	224
	1185	WP2067	N3	1340/1430	04:20N/Q1:38 S	64:00	65	121	200	6.6	41,000	227
	1186	WP2068	N4	1432/1522	01:51 8/07:35 8	64:00	65	121	200	6.6	31,000	12-
716	1171	WE777	Ni	1140/1237	35:00 S/28:47 S	62:00	61.6/65	120	208	7. 3	5, 600	5
EN	1172	WE778	N2	1239/1331	28:35 S/22:21 S	62:00	65	121	208	6. 6	6, 200	5
EM	1173	WE779	N3	1333/1438	22:08 S/45:55 S	62:00	65	119	210	7.9	10, 100	8
	1174	WE780	N4	1440/1528	15:43 S/09:30 S	62:00	65	123	210	6. 1	14, 400	10
718	1175	WE797	N1	1215/1304	35:00 S/40:02 S	62:00	40	170	221	20.2	390	
ES	1176	WE798	NZ	1306/1359	40:145/44:545	62:00	40	170	223	21.7	1, 380	1
6 Mar	ch 1959	Mission 39										
714	1187	WP2221	N1	1225/1312	16:00N/21:16N	64:00	64, 6/65, 9	119	208	5.7	47,000	29
RN	1188	WP2222	N2	1314/1400	21:30N/26:46N	64:00	66. 1/66. 5	118	207	5.4	44,000	20
KIN	1189	WP2223	N2 N3	1401/1449	27:00N/32:24N	64:00	66.5/67.3	116	207	5.4	43,000	27
	1190	WP2224	N4	1450/1537	32:38N/38:02N	64:00	67.3/67.5	113	208	4.9	47,000	2
705	1191	WP2073	N1	1151/1244	16:00N/10:18N	64:00	62/62, 4	130	206	8.4	28,000	
RS	1192	WP2074	N2	1246/1336	10:04N/04:22N	64:00	62, 4/64, 6	121	205	6,8	45,000	2
ro.	1193	WP2075	N3	1338/1428	04:08N/01:34 S	64:00	64. 6/65	120	207	6. 2	44,000	- 1
	1194	WP2076	N4	1430/1521	01:48 8/07:38 8	64:00	65/67	118	205	6.2	24, 00C	i
716	1195	WE981	N1	1145/1239	35:00 S/28:47 S	62:00	64, 6/65, 5	122	215	6.6	5, 300	
EN	1196	WE982	N2	1240/1339	28:33 8/22:21 8	62:00	65.5/66.5	118	215	6.4	6, 400	
<b>E14</b>	1197	WE983	N3	1340/1435	22:08 8/15:55 8	62:00	66.5/67.5	115	215	5.6	7, 800	
	1198	WE984	N4	1436/1530	15:43 8/09: 30 S	62:00	67.5/68.2	111	215	5. 1	22, 000	1
748	1199	WE985	N1	1210/1310	35:00 S/40:31 S	62:00	48	164	298	19.9	< 410	
ES	1200	WE986	N2	1312/1412	40:44 8/46:04 8	62:00	48	163	215	18,9	470	
~~	1201	WE987	N3	1414/1507	46:16 8/51:29 8	62:00	48	158	223	15.4	2, 600	
	1202	WE988	N4	1509/1603	51:41 8/57:00 S	62:00	48	156	227	15.1	5, 500	
IO Ma	rch 1959	Mission 40										
705	1211	WP2225	Ni	1224/1309	16:00N/21:15N	64:00	60	135	197	8.5	32,000	4
RN	1212	WP2226	N2	1311/1359	21:29N/26:51N	64:00	60	135	198	8,8	28,000	- 3
KM	1213		N2 N3	1401/1447	27:05N/32:20N	. 64:00	60	135	200	8.4	29,000	
	1214		N4	1450/1533	32:40N/37:55N	64:00	60	135	203	7.8	28,000	
715	1215	WP2229	N1	1153/1246	16:00N/10:16N	64:00	60	135	198	9.8	22,000	
RS	1216		N2	1248/1341	10:03N/04:26N	64:00	60	135	198	9. 9	19, 600	
	1217		N3	1342/1436	04:13N/01:37 S	64:00	60	135	198	10, 1	12, 100	
	1218		N4	1438/1532	01:50 8/07:40 8	64:00	60	135	198	10.0	6, 100	
718	1203	WE977	N1	1142/1235	35:00 S/28:47 S	62:00	60	135	208	9. 3	4,600	
EN	1204	WE978	N2	1237/1332	28: 35 5/22: 21 5	62:00	60	135	215	9.2	5, 100	
	120		N3	1334/1434	22:08 5/15:55 8	62:00	60	135	213	10.1	4, 900	
	120		N4	1436/1530	15:43 8/09: 30 8		60	135		9.1	5, 900	
716	120	7 ₩£973	N1	1216/1306	35:00 S/40:19 S	62:00	54. 8/54. 6			12.2	3, 800	
	120	WE974	N2	1349/1407	44:138/45:518	62:00	54/55	155	215	4.4	5, 200	
ES	120	, mp.,,,,	112	4927712701								
ES	120		N3	1408/1440	46:04 5/51:23 8		55/55	155		7.3	5, 200 5, 500	

Isotopes, Inc.

AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitudo	Longitude ("W)	Altitude (i000 ft.)	IAS (Kt)	Temp.	10 ³ SCF	Total Beta	8r ⁹⁰
3 Alarc	h 1959	Mission 41										
705	1227	WP2237	N4	1224/1311	16:00N/21:14N	64:00	55.3	155	196	12.3	5, 600	22
RN	1228	WP2238	NZ	1313/1359	21:28N/26:50N	64:00	55	155	198	12.1	10, 600	40
	1229	WP2239	N3	1401/1447	27:04N/32:18N	6 <b>4</b> :00	55	155	200	12.0	13, 300	62
	1230	WP2240	N4	1449/1525	32: 32N/37: 54N	64:00	54.7	155	202	11.9	28, 000	101
714	1231	WP2233	Ni	1154/1244	16:00N/10:25N	64:00	55	155	196	13,2	3, 800	18
rs	1232	WP2234	N2	1246/1336	10: 12N/04: 44N	64:00	55	155	194	13, 4	4, 500	10
	1233	WP2235	N3	1338/1433	04: 31N/01: 25 S	64:00	54, 5	155	194	15.0	1,680	5
716	1219	WE801	Ni	1144/1237	35:00 S/28:47 S	62:00	55	155	203	13,5	3, 600	19
EN	1220	WE802	N2	1239/1332	28:35 8/22:21 8	62:00	55.3/55.1	155	197	14.1	1, 120	
	1221	WE803 WE804	N3 N4	1333/1432 1434/1527	22:08 S/15:55 S 15:43 S/09:30 S	62:00 62:00	55.1/55.1 55	155 155	198 198	15.6 14.0	600 ≲ 330	
									•			
718	1223	WE817	N1	1210/1254	35:00 8/40:14 8	62:00	65	121	203	5.8	4, 600	6
ES.	1224	WE818	N2	1256/1346	40:32 8/45:51 9	62:00	65	121	197	6.7	5,000	63
	1225	WE819	N3	1348/1435	46:048/51:238	62:00	65	121	198	6. 3	8, 100	77
	1226	WE820	N4	1437/1520	51: 36 S/57:00 S	62:00	65. 3	121	198	5.8	4, 400	5
7 Mar	ch 1959	Mission 42										
714	1243	WP1377	N1	1230/1318	16:00N/21:08N	64:00	64. 6	121	210	6.0	38,000	18
RN	1244	WP1379	N2	1320/1407	21; 35N/26; 43N	64:00	65	121	211	5.8	40,000	19
	1245	WP1380	N3	1409/1455	26:56N/32:04N	64:00	65	121	213	5.6	45,000	20
705	1247	WP2249	N1	1153/1244	16:00N/10:16N	64:00	64.7	121	207	6, 5	43, 000	22
R.S	1248	WP2250	N2	1246/1335	10:02N/04:18N	64:00	65	121	206	6.2	36,000	20
	1249	WP2251	N3	1337/1427	04:04N/01:40 S	64:00	65	121	206	6.4	30,000	16
	1250	WP2252	N4	1429/1519	01:548/07:50 S	64:00	65	121	205	6, 4	23, 000	10
718	1235	WE961	N1	1119/1214	35:00 S/28:47 S	62:00	58.7/64.8	126	213	7.6	5, 800	5
EN	1236	WE962	N2	1216/1313	28: 35 8/22: 21 S	62:00	65	121	201	7.5	8, 300	- 6
	1237	WE963	N3	1315/1412	22:08 5/15:55 5	62;00	65	121	199	7.6	12, 400	
	1238	WE964	N4	1414/1510	15:43 5/09: 30 5	,62:00	65	121	201	7.4	13,600	9
717	1239	WE957	N1	1215/1309	35:00 5/39:44 8	62:00	40	172	223	22, 1	1,850	4
ES	1240	WE958	N2	1311/1405	39:548/44:448	62:00 62:00	40 40	174	225 227	22, 6	1, 660	1
	1241 1242	₩£959 ₩£960	N3 N4	1407/1505 1507/1605	44:548/49:348 49:458/54:458	62:00	40	180	229	24, 1 25, 1	950 360	
20 Mar	ch 1959	Mission 43										
		<del></del>		100/ /1010	11				***			
705 RN	1251 1252	WP1381 WP1382	N1 N2	1226/1310 1313/1358	16:00N/21:02N 21:16N/26:31N	64:00 64:00	63.7/64.8 64.8/65.8	124		5. 9 5. 7	36,000 29,000	25
KN	1252		NZ N3	1359/1448	26: 45N/32: 13N	64:00	65, 8/66, 4			5.8	41,000	19
	1254		N4	1450/1538	32: 27N/37: 55N	64:00	66. 4/66. 5			5.5	31,000	2:
715	1255	WP4385	N1	1153/1246	16:00N/10:02N	64:00	65	121	206	6.7	36, 000	20
RS	1256		N2	1248/1338	09:48N/04:20N	64:00	65	121		6, 4	31,000	1
	1257		N3	1340/1430	04:06N/01:22 8	64:00	65	121	203	6, 5	30,000	13
	1258		N4	1432/1523	01:368/07:218	64;00	65	121	203	6.6	21,000	14
717	1259		N1	1135/1228	35:00 5/28:47 8		63.4/66	124		6, 8	6, <b>4</b> 00	
EN	1260		NZ	1229/1325	28:33 S/22:21 S		66.1/67.3			6.6	6, 900	
	1261		' N3	1326/1427	22:08 8/15:55 8		67.4/68.3			6. 2	12, 800	
	1262	WE952	N4	1428/1524	15:43 8/09: 30 S	62;00	68.3/68.6	111	215	5. 3	28,000	1
718	1263		Ni	1240/1331	35:00 5/40:22 5		48	162		16.4	1, 120	
ES	1264		NZ	1333/1426	40: 35 8/45: 59 8		48	162		16.7	1.030	
	1265		N3	1428/1522	46:10 8/51:32 8		48	162		17, 1	1,690	
	1266	WE956	N4	1524/1616	51;458/57:008	62:00	48	167	213	16. 4	2,700	

Table 4.2 (continued)

C No.	HASP No.	Air Force	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft.)	IAS (Kt)	Temp.	10 ³ SCF	Total Beta	Sr9
Marc	h 1959	Mission 44										
14	1267	WP1389	N4	1226/1313	16:00N/21:16N	64:00	55	155	193	12.7	2, 500	
N.	1268	WP1390	N2	1315/1402	21:30N/26:52N	64:00	55	155	198	12,4	7, 100	2
	1269	WP1391	N3	1404/1450	27:06N/32:22N	64:00	55	155	203	11.8	17, 100	
	1270	WP1392	N4	1452/1536	32:36N/37:58N	64:00	55	155	210.	10.9	20, 000	10
15	1271	WP1393	N1	1153/1246	16:00N/09:56N	64:00	55	155	193	14.3	3, 100	
S	1272 1273	WP1394 WP1395	N2 N3	1248/1338 1340/1430	09:42N/04:00N 03:46N/01:56S	64:00 64:00	55 55	155 155	193 193	13.5 13.5	1,760 1,840	
	1274	WP1396	N4	1432/1523	02:10 S/08:00 S	64:00	55	155	193 /	13.8	2, 600	
16	1283	WE933	N1	1145/1239	25:00 S/29:00 S	62:00	55	155	206	13.5	1,870	
N	1284	WE934	N2	1241/1337	28:46 5/22:46 5	62:00	55	155	205	14, 1	1, 220	
	1285	WE935	N3	1339/1434	22:325/16:325	62:00	54.7	<b>155</b>	199	14, 4	≤ 1, 110	
	1286	WE936	N4	1436/1531	16:18 5/10:18 5	62:00	55	155	201	14. 3	1, 630	
18	1287	WE937	N1	1210/1259	35:00 S/40:20 S	62:00	55	156	205	12, 5	3, 100	
S	1288	WE938	N2	1301/1344	40:33 5/45:52 5	62:00	55	156	211	10.6	4, 200	
	1289	WE939	N3	1346/1433	46:06 8/51:26 5	62:00	55	156	216	11.3	5, 100	
	1290	WE940	N4	1435/1523	51:39 S/57:02 S	62:00	55	157	215	11.7	4, 300	
Mar	ch 1959	Mission 45										
15	1275	WP1409	N1	1227/1314	16:00N/21:10N	64:00	65	121	206	6.0	33,000	
N	1276	WP1410	N2	1315/1401	21:24N/26:34N	64:00	64.4/65.4	121	208	5.9	36, 000	
	1277	WP1411	N3	1402/1449	26:48N/31:58N	64:00	85.4/65.4	121	209	5.8	34, 000	
	1278	WP1412	N4	1451/1533	32:12N/37:56N	64:00	65.6/65.9	121	212	5.0	40, 000	
14	1279	WP1405	NI	1151/1242	16:00N/10:24N	64:00	64, 8	121	206	6.6	41,000	
8	1280	WP1406	NZ N3	1244/1334 1336/1426	10:10N/04:26N	64:00 64:00	65 65	121	206 206	6.4	41,000 27,000	
	1281 1282	WP1407 WP1408	N4	1428/1520	04:12N/01:32 S 01:16 S/07:44 S	64:00	65	121	206	6.4 6.6	23,000	
16	1291	WE929	N1	1143/1230	35:00 S/28:58 S	62:00	61.8/64.5	121	213	5.9	4, 800	
N	1292	WE930	N2	1231/1332	28:45 8/22:39 8	62:00	64.4/65	121	214	7.4	4,800	
	1293	WE931	N3	1333/1424	22:25 8/16:49 8	62:00	65.2/65	121	215	6.2	5,800	
	1294	WE932	N4	1425/1526	16:15 8/22:21 8	62:00	65/66	121	215	7.4	11,000	
17	1295	WE925	Ni	1210/1255	35:00 8/40:21 8	62;00	64.5	121	213	5.6	5,400	
28	1296	WE926	NZ	1257/1345	40:35 8/45:57 8	62:00	64.8	121	217	5.8	5,000	
	1297 1298	WE927 WE928	N3 N4	1347/1433 1435/1523	46;10 8/51;29 8 51;35 8/46;15 8	62:00 62:00	65 65	121 121	223 223	5.3 5.5	5, 100 5, 300	
	11 1959	Mission 46										
	1300	WP1430	N2	1402/1448	32;27N/27:11N	64:00	65/65.8	120	211	5. 6	35,000	
705 RN	1301	WP1431	N3	1450/1536	26:57N/21:41N	64:00	65.8/66.7	117	210	5, 2	36,000	
	1302	WP1432	N4	1538/1625	21:27N/16:03N	64:00	66.7/67.7	115	210	5. 1	41,000	
714	1303	WP1433	Nt	1512/1602	07:45 5/01:59 5	4:0	66.8/68,8	112	209	5. 1	37,000	
RS	1304	WP1434	N2	1603/1650	01:528/03:32N	64:00	68.8/69.3	110		4.4	49,000	
	1305	WP1435	N3	1652/1745	03:46N/09:52N	64:00	69.3/70	110		4. 9	58,000	
	1306	WP2257	N4	1747/1838	10:06N/15:58N	64;00	70.2/70.8	107	210	4. 4	67, 000	
3 Apr	11 1959	Mission 47										
715	1307	WP1453	N1	1225/1312	16:00N/21:12N	64:00	60	135		8.5	15, 600	
RN	1308	WP1454	N2	1314/1400	21:26N/26:38N	64:00	60	135		8.3	22, 000	
	1309	WP1455	N3	1402/1450	26:52N/32:18N	64:00	60	135		8.5	21,000	
	1310	WP1456	N4	1452/1540	32; 32N/37:58N	64:00	60	135	208	8.4	27, 000	
714	1311	WP1437	N1	1154/1244	16:00N/10:24N	64:00	60	135		9.1	14, 500	
rs	1312 1313	WP1438 WP1439	N2 N3	1246/1336 1338/1428	10:10N/04:34N 04:20N/01:16S		60 60	135		9, 1 9, 1	14,700 10,100	
	1313		N4	1430/1526	01:305/07:465		60	135		10.2	6,700	
716	1315	WE821	N1	1242/1327	35:00 S/40:00 S		40	170	213	19.0	1,170	
ES	1316		N2	1746/1834	39:48 S/35:00 S		40	170		20.3	910	
	1317	WE825	Ni	1205/1252	35:00 S/40:00 S	64:00	50	160	215	13.6	3, 300	
718												

Isotopes, Inc.

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time.	Latitude	Longitude	Altitude	IAS	Temp,	103	dpm/10	
	No.	No.	<del></del> -	(Z)		(*W)	(1000 ft.)	(Kt)	(°K)	SCF	Beta	Sr90
April	1959	Mission 48										
14	1327	WP1477	N1	1425/1512	16:00N/21:12N	64:00	55	155	199	12, 3	5,000	2
RN	1328	WP1478	N2	1514/1603	24:25N/26:51N	64:00	55	155	203	12.5	7,700	4
	1329	WP1479	N3	1605/1653	27:04N/32:24N	64:00	55	155	205	12, 1	17, 200	111
	1330	WP1480	N4	1655/1743	32: 37N/37: 57N	64:00	55	155	210	11.9	29,000	20
715	1331	WP1485	N1	1352/1445	16:00N/10:16N	64;00	55	155	198	14.0	1, 250	
RS	1332	WP1486	N2	1447/1539	10:03N/04:25N	64:00	55	155	197	13, 8	≤ 1,330	4
	1333	WP148?	N3	1541/1634	04: 12N/01: 32 S	64:00	55	155	197	14, 1	≤ 900	
	1334	WP1488	N4	1638/1731	01:585/07:425	64:00	55	155	197	14. 1	≤ 820	
717	1323	WE921	N1	1240/1334	35:00 S/28:48 S	62:00	55	155	205	13, 6	3, 400	3
EN	1324	WE922	N2	1336/1431	28: 345/22: 195	62:00	55	155	205	13. 9	1,830	
	1325	WE923	N3	1433/1533	22:065/15:585	62:00	55	155	203	15. 3	1, 280	
	1326	WE924	N4	1535/1624	16:00 5/22:13 5	62:00	55	155	203	12,5	1, 330	•
716	1319	WE917	N1	1332/1418	35:00 S/40:20 S	64:00	55	155	205	11.6	4, 500	5
ES	1320	WE918	N2	1420/1458	40: 345/45: 545	64:00	55	155	217	9, 0	4, 600	5
	1321	WE919	N3	1500/1553	46:08 \$/51:25 \$	64:00	55	155	225	12, 1	4, 800	5
	1322	WE920	N4	1555/1639	54: 38 S/46: 21 S	64:00	55, 5	155	225	9. 9	5, 100	4
O Apri	1 1959	Mission 49										
715	1335	WP1501	N4	1231/1317	16:00N/21:14N	64:00	65	121	207	5, 8	29,000	18
RN	1336	WP1502	N2	1319/1405	21:28N/26:42N	64:00	65	121	209	5.8	32, 000	17
	1337	WP1503	N3	1407/1453	26:56N/32:10N	64:00	65	121	207	5.8	28, 000	22
	1338	WP1504	N4	1455/1544	32:24N/37:58N	64:00	65	121	207	6, 2	31,000	22
705	1339	WP1489	Ni	1151/1241	16:00N/10:10N	64:00	64, 5	121	205	6, 5	37,000	18
RS.	1340	WP1490	N2	1243/1333	09:56N/04:06N	64:00	65	121	204	6.5	28,000	15
	1341	WP1491	N3	1338/1425	03:31N/01:57 S	64:00	65. 3	121	203	6. 1	30, DOG	15
717	1342	WE833	Ni	1155/1240	35:00 S/40:00 S	64:00	59.5	136	211	7.9	5, 400	
E8	1343	WE835	N3	1808/1850	39:46 S/36:20 S	64:00/60.50	60.5	137	214	7.2	4, 800	5
718	1344		Ni	1225/1308	35:00 8/40:00 8	64:00	64/65	122	213	5, 4	4, 700	:
es	1345	WE831	N3	1842/1925	39:46 8/35:00 S	64:00	68. 3	114	215	4. 4	4, 700	5
i4 Apri	il 1959	Sea Fish Spe	cial No.	3		•						
6676	1354	8F01	H1	 1543/1619	60:00N/65:00N	118:00	34.3/35.2	264	226	67.3	41,000	4.3
	1355		H2	1619/1700	65:00N/70:00N	118:00	35. 2/35. 5		226	74.3	30,000	12
	1356		H3	1700/1740	70:00N/75:00N	118:00	35.5/36	260	226	71.9	50,000	10
	1357		H4	1740/1823	75:00N/80:00N	118:00	36/37.3		226	74.4	51,000	17
	1361		Hi3	1740/1925	75:00N/90:00N	118:00	36/38.3		226	197. 9	64,000	28
	1351		H5	1823/1904	80:00N/85:00N	118:00	37, 3/38	249	226	61.1	43,000	1
	1359										77,000	30
			H6	1901/1935	85:00N/90:00N	118:00	38/38.3			52.7	113,000	31
	1360		H14	1901/1935	85:00N/90:00N	118:00	38/38.3			52, 7		2:
	1362		H7	1942/2021	90:00N/85:00N	118:00	38, 3/38, 7			58.9	67,000	
	1363		Н8	2021/2055	85:00N/80:00N	118:00	38.7/39.6			50.8	55,000	2
	1364		H9	2055/2130	80:00N/75:00N	118:00	39.6/40.3			49.0	48,000	2
	1365		H10	2130/2207	75:00N/70:00N	118:00	40.3/41.5			49. Z	27,000	1.
	1366		H11	2207/2252	70:00N/65:00N	118:00	41.5/41.7			55.0	33,000	1
	1367	SF14	H12	2252/2330	65:00N/60:00N	118:00	41, 9/42, 6	226	226	46.6	65,000	2

C No.	HASP No.	Air Force No.	Filter	Time (Z)	Lati tude	Longitude	Altitude	LAS (331)	Temp.	10 ³ SCF	Total Beta	Sr ⁹⁰
April		Mission 51	.,	(~)			(1000 11.7	- (EZE)-	-CN	- St.F	Bew.	
05	1346	WP1541	Ni	1226/1313	16:00N/21:20N	64:00	55	155	194	12, 6	3, 400	14
R.N	1347	WP1542	NS Nr	1315/1402	21: 33N/26: 39N	64:00	55	155	203	12,0	8,000	41
	1348	WP1543	N3	1404/1455	26:32N/32:32N	64:00	55	155	208	12.7	17, 100	104
	1349	WP1544	N4	1457/1538	32:45N/37:57N	64:00	55	155	211	10.0	23,000	127
714	1350	WP1545	N1	1153/1244	16:00N/10:16N	64:00	55	155	194	13.7	2, 200	10
rs	1351	WP1546	N2	1246/1336	10:02N/04:18N	64:00	55	155	195	13.4	1,090	3
	1352 1353	WP1547 WP1548	N3 N4	1338/1428 1430/1520	04:04N/01:40 S 01:54 S/07:44 S	64:00 64:00	55 55	155 155	195 195	13, 4 13, 4	≤ 360 ≤ 950	3
718	1371	WE849	Ni	1230/1318	35:00 S/40:00 S	64:00	40	170	219	19.8	500	4
ES	1372	WE850	N2	1320/1318	40:12 S/40:00 S	64:00	40	170	218	117.8	880	6
	1373	WE851	N3	1807/1849	39:48 S/35:00 S	64:00	40	170	219	17.4	720	4
716	1368	WE837	N1	1200/1248	35:00 \$/40:00 S	64:00	50	160	217	13.8	2, 300	13
ES	1369	WE838	N2	1250/1740	40:14 5/40:00 5	64:00	50	160	218	82.9	3, 400	16
	1370	WE839	N3	1742/1822	39:46 8/35:00 S	64:00	50	160	217	11.5	2, 300	24
9 April	1959	Mission 52X										
714	1374	WP1589	Ni	1157/1311	20:00N/27:36N	71:00	60	135	201	13,5	24, 000	147
RP	1375	WP1590	N2	1312/1353	27:43N/32:08N	71;00	60	135	206	7.2	23,000	161
	1376	WP1591	N3	1355/1451	32: 20N/37: 48N	71:00	60	135	211	9.6	26, 000	151
	1377	WP1592	N4	1453/1549	38:00N/44:00N	71:00	60	135	216	9. 4	28,000	164
715	1378 1379	WP1605	N1	1300/1352	20:00N/25:27N	71:00 71:00	60.8/66 66/66.6	120	211 211	6.4 6.7	24,000 30,000	177 233
RP	1379	WP1606 WP1607	N2 N3	1353/1452 1454/1546	25: 39N/32: 03N 32: 16N/38: 02N	71:00	66.6/67	117	215	5.7	24, 000	235
	1381	WP1608	N4	1548/1643	38: 15N/44: 00N	71:00	67/67.1		217	5.7	13, 200	150
21 Apri	1 1959	Mission 52										
705	1382	WP1585	N1	1349/1438	44:00N/49:15N	71:00	50.8/50	160	218	14, 3	17,700	97
PN	1384	WP1587	N3	1531/1620	55:00N/60:21N	71:00	49. 4/49. 6		221	13, 9	22,000	95
-M	1385	WP1588	N4	1622/1711	60:34N/66:00N	71:00	49.6/49.8		221	13. 9	21,000	109
715	1386	WP1629	N1	1320/1408	44:00N/49:21N	71:00	60	135	221	7.8	26,000	264
PN	1388	WP1631	N3	1458/1543	55:13N/60:30N	71:00	60	135	222	7.4	24,000	265
	1389	WP1632	N4	1545/1631	60:44N/66:00N	71:00	60	135	226	7. 3	29,000	221
										1		000 SCF
Date	HABI No.	,,,	Filter	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS (Kt		, 10 ³	Total Beta	Sr 9
22-29	April 19	59 North Fli	ght									
22 Apr	. 1663	FAS-48	н	1831/0006	70:00N	154;00	61	130	225	111.6	16, 100	19
22 Apr	. 1664	FAS-49	H	1900/0034	70:00N/71:00N	154:00/ 157:00	63/67	121	225	87.0	24, 000	25
25 Apr	. 1565	FAS-50	н	1831/2249	70:00N/71:00N	154:00/ 155:00	50	133	225	127.8	6, 600	5
25 Apr	. 1666	FA-51	н	1900/0039	70:00N	154:00	60	135	225	121.7	18, 300	21
28 Apr		FA-52	н	1806/2301	71:00N/72:00N	155:00/	50	133	3 225	146, 2	15, 400	54
						157:00						-

70:00N

1800/2244

29 Apr. 1668

FA-54

154:00/ 156:00 62/65

125 225 82.5

16, 900

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Isotopes, Inc.

C No.	HASP No.	Air Force No.	Filter	Time (2)	Latitude	Longitude (*W)	Alticude (1000 ft.)	LAS (Kt)	Temp.	10 ³ SCF	dpm/100 Total Beta	8r ⁹⁰
April	1959	Mission 53										
18	1390	WE909	N1	1155/1239	35:00 S/40:00 S	64:00	60	135	216	7.4	5,000	72
cs	1391	WE911	N3	1725/1805	39:46 8/35:00 S	64:00	60	135	216	6. 7	5,000	70
116	1392	WE873	N1	1224/1306	35:00 8/40:00 5	64:00	63,4/64	124	216	5, 4	4, 500	61
es	1393	WE875	N3	1811/1859	39:46S/35:00S	64:00	<b>66.6</b>	121	216	5, 5	4, 400	64
April	1959	Mission 53X										
705	1394	WP1577	N1	1206/1257	44:00N/38:06N	71:00	60	135	217	8.5	26, 000	228
PR	1395	WP1578	N2	1259/1354	37:52N/31:52N	71:00	60	135	211	9.4	25,000	182
	1396 1397	WP1579 WP1580	N3 N4	1410/1444 1446/1537	29; 40N/25: 52N 25: 38N/19: 52N	71:00 71:00	60 60	135 135	207 201	6.0 9.3	26, 000 24, 000	178
											•	
714	1398	WP1597	Ni.	1139/1230	44:00N/38:06N	71:00 71:00	58.5/62 62.2/63.7	135 124	219 217	8. 2 6. 7	27,000 27,000	199
PR	1399 1400	WP1598 WP1599	N2 N3	1232/1323 1325/1420	37:52N/31:58N 31:44N/25:10N	71:00	63.7/64.6	122	217	6.9	27,000 31,000	219 30 <i>6</i>
	1401	WP1600	N4	1422/1504	24:56N/19:58N	71:06	64.6/65.5	120	207	5, 2	26,000	196
714	1402	Mission 54 WP1601	N1	1226/1311	16:00N/21:00N	64:00	60	135	196	8, 5	19,700	15
RN	1402	WP1602	N2	1313/1400	21:14N/26:28N	64:00	60	135	206	8.3	11.900	7
4614	1404	WP1603	N3	1402/1456	26: 42N/32: 30N	64:00	60	135	211	9. 2	18, 400	15
	1405	WP1604	N4	1457/1544	32:44N/37:58N	64:00	60	135	213	7. 9	21,000	14
705	1406	WP1593	Ni	1152/1244	16:00N/10:08N	64:00	59.5	135	203	9.5	12, 100	8
RS	1407	WP1594	N2	1246/1336	09:54N/04:08N	64:00	60	135	203	9.0	10, 100	5
	1408	WP1595	N3	1339/1427	03:54N/01:32 S	64:00	66	135	203	8.7	6, 800	3
	1409	WP1596	N4	1429/1511	01:46 8/07:46 8	64:00	60	135	203	7.6	3, 600	2
716	1410	WE913	Ni	1140/1244	32:23 8/26:23 S	59:04/60:36	60	135	215	10.8	4,600	5
ER	1411	WE914	N2	1247/1329	26:10 8/20:04 8	60:40/62:32	60 60	135 135	211 213	7.2 7.9	5,000	3
	1412	WE915 WE916	N3 N4	1343/1430 1436/1527	18:30 8/13:14 8 12:34 8/06:52 8	62: 35/63:29 63: 30/64:11	60	135	213	8.6	3,900 3,500	i 2
	1913	WEATO	NT	1438/1321	12:34 8/ 00:32 8	03,30704,11	•••		213	0,0	3, 300	-
1 May	1959	Mission 55										
705	1414		N4	1226/1311	16:00N/21:18N	64:00	55	155	193	12.1	3, 400	4
RN	1415 1416		NZ N3	1313/1401 1402/1448	21:32N/26:56N 27:03N/32:21N	64:00 64:00	55 55	155	201 205	12.4 11.7	3, 100 7, 400	1
	1417		N4	1450/1536	32:35N/37:59N	64:00	55	155		11.4	16, 600	1
71.	1418	WE1040	N1	1230/1333	35:00 S/40:00 S	64:00	40	170	219	26.0	660	
ES.	1419		N3	1709/1800	39:49 8/35:00 8	64:00	40	170		21.1	930	
717	1420	WE1012	N1	1200/1241	35:00 S/40:00 S	64:00	50	160	213	12,0	1, 350	,
ES	1421		N3	1745/1825	39:47 B/ 35:00 B	64:00	49.5	163	213	12, 2	2, 300	•
5 May	y 1959	Mission 56										
714	142		N4	1520/1612	07:45 S/01:51 S	64:00	65.2/67.3	118	207	6, 1	19, 900	4!
714 RS	142		N1 N2	1614/1704	01:37 5/04:03N	64:00	67.3/68.6			5.5	23, 000	11
r.u	142		N3	1706/1758	04:17N/10:11N	64:00	68,7/68,8			5, 1	34,000	22
	143		N4	1800/1851	10:25N/16:11N	64:00	69.1/70.			4.7	38,000	Ž
718	142	2 WE1048	N1	1140/1234	35:00 S/28:47 S	62:00	60, 6/64,	123	3 211	7.1	6, 500	
EN	142		N2	1235/1328	28: 348/22: 21 8	62:00	64. 6/65.			6, 7	7, 500	
	142	4 WE1050	N3	1329/1426	22:08 5/15:55 8	62:00	65. 3/66.			6.7	8,000	
	142	5 WE1051	N4	1427/1522	15:42 S/09: 30 S	62:00	66.9/67.	9 11!	215	5.7	20,000	1
'47/ES	9 142	6 WE1044	N1	1225/1259	35:00 8/40:16 9	64:00	55	15	5 211	8, 3	3, 600	

Isotopes, Inc.

Table 4.2 (continued)

C No.	HARP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft.)	IAS (Kt)	Temp.	10 ³ SCF	Total Beta	8r ⁹
May	1959 M			<u> </u>				12:1	\- <u></u> !\	***		
												_
05 LN	1431 1432	WP1725 WP1726	N1 N2	1225/1311 1313/1405	16:00N/21:18N 21:32N/27:32N	64:00 64:00	60 60	135	206 208	8. 1 9. 1	10,000 11,100	5 7
T.I	1433	WP1727		1406/1448	21: 32N/21: 32N 27: 39N/32: 21N	64:00	60	135	210	7. 3	19,000	14
	1434	WP1727 WP1728	N3 N4	1450/1448	32:35N/37:59N	64:00	60	135	212	7.8	19, 500	15
	1434	WP1140	M4	1490/1936	32:35M/ 31:59M	04:00	60	133	212	***	19, 500	10
14	1435	WP1729	Ni	1152/1243	16:00N/10:08N	64:00	60	135	206	9. 0	11,500	-
S	1436	WP1730	N2	1245/1335	09:54N/04:10N	64:00	60	135	206	8.8	11, 100	(
	1437	WP1731	N3	1337/1431	03:56N/02:02S	64:00	60	135	206	9. 5	6, 900	
	1438	WP1732	N4	1433/1428	02:368/07:468	64:00	60/61.3	135	206	9. 3	6, 300	
17	1439	WE1052	N1	1200/1244	35:00 S/40:00 S	64:00	60	135	213	7.4	5, 100	
S	1440	WE1054	N3	1803/1845	39:46 S/35:00 S	64:00	60	135	213	7. 1	5, 200	
1.9	1441	WE1056	N1	1225/1309	35:00 S/40:00 S	64:00	64, 3/64, 5	121	213	5, 4	4, 400	
8	1442	WE1058	N3	1745/1828	39:46 S/35:00 S	64:00	67.5/67.5	120	213	4.8	5, 500	
_		- 4.000	113	1115,1010	37, 100, 33,000	0 1,00	************				5,500	
Мау	1959 м	ission 58										
05	1450	WP1733	Ni	1 15/1311	16:00N/21:16N	64:00	55	155	197	12. 2	3, 200	
LN	1451	WP1734	N2	1315/1359	21:44N/26:44N	64:00	55	155	199	11,5	2, 300	
14	1452	WP1737	N1	1151/1242	16:00N/10:04N	64:00	55	155	197	13.5	1,020	
S	1453	WP1738	N2	1244/1334	09:50N/04:08N	64:00	55	155	196	13, 3	≤ 1,040	
	1454	WP4739	N3	1336/1423	03:54N/01:48 S	64:00	55	155	195	12.6	≤ 920	
	1455	WP1740	N4	1425/1514	02:02 5/07:44 8	64:00	55	155	194	13.2	≤ 440	
18	1443	WE1216	Ni	1140/1234	35:00 8/28:47 8	62:00	55	150	213	12.4	3, 300	
N	1444	WE1217	N2	1236/1334	28:35 8/22:21 8	62:00	55	152	213	13.6	1, 690	
	1445	WE1218	N3	1334/1442	22:08 S/15:55 S	62:00	55/56	148	209	15, 4	520	
17	1446	WE1000	Ni	1228/1313	35:00 8/40:16 8	64:00	64/65.6	124	215	5.7	5, 100	
s	1447	WE1001	N2	1314/1401	40:29 8/45:48 8	64:00	65.6/66.3	120	215	5, 5	3, 100	
	1448	WE1002	N3	1403/1450	46:02 8/51:23 8	64:00	66.3/67.2	118	215	5.1	3, 800	
	1449	WE1003	N4	1451/1536	51:37 S/57:00 S	64:00	67.2/67.7	115	215	4.6	2,800	
May	/ 1959 N	dission 59										
17	1456	WE1220	Ní	1210/1248	35:00 8/39:00 S	64:00	40	170	214	16.0	1.730	
ES	1457	WE1222	N3	1614/1710	39:48 8/35:00 8	64:00	40	170	214	23.6	2,200	
_											•	
18	1458	WE1224	Ni	1253/1320	35.00 S/40:00 S	64:00	50	160	215	7.8	3, 800	
S	1459	WE1226	N3	1735/1819	39:47 8/35:00 S	64:00	50	160	215	12.8	3, 400	
Ma	y 1959 N	dission 60X										
714	1460	WP1757	N1	1223/1316	20:00N/25:52N	71:00	55	155	200	·13.8	3, 300	
RP	1461	WP1758	N1 N2	1318/1409	26:06N/34:5BN	71:00	55	156		13.1	7, 800	
	1462	WP1759	N3	1411/1507	32:12N/39:16N	71:00	55	154		13.4	16, 700	
	1463	WP1760	N4	1509/1551	39: 30N/44:00N	71:00	55	154		9.7	19,000	
72.	1464	WP1797	***	1155/1246	20:00N/25:20N	71:00	60	135	206	9.0	14, 400	
715			N1					135				
RP	1465 1466	WP1798 WP1799	N2 N3	1248/1344 1346/1439	25:34N/31:58N	71:00 71:00	60 60	135		9.7 8.9	14, 200	
	1467	WP1799 WP1800	N3 N4	1441/1531	32:12N/38:04N 38:18N/44:00N	71:00	60	135		8.1	18, 200 18, 000	
											•	
705	1468	WP1741	N1	1253/1344	20:00N/25:52N	71:00	63/64, 2			7.1	21,000	
RP	1469	WP1742	NZ	1346/1436	26:06N/31:58N	71:00	64.2/65	123		6. 3	28,000	
	1470	WP1743	N3	1441/1530 1532/1619	32:12N/38:04N 38:18N/44:00N	71:00	64, 9/65, 1			5.9	26, 000	
	1471	WP1744	N4			71:00	65. 2/66. 2	121	221	5.4	21.000	

Isotopes, Inc.

Table 4, 2 (continued)

AC No.	HASP	Air Force	Füter	Time	Latitude	Longitude ('W)	Altitude (1000 ft.)	LAS (Kt)	Temp.	io ³ SCF	dpm/10 Total Beta	5r ⁹⁰
	No.	No.		(Z)		<u></u>	12000 28.7	(2)	(3)	- BUE		<u>gr</u>
May	1959 M	ission 60										
714	1472	WP1841	N1	1256/1356	44:00N/49:48N	71:00	45	165	209	21.6	18, 600	109
PN	1473	WP1842	NZ	1358/1454	50:00N/54:54N	71:00	45	165	219 223	19.2	17, 300	109
	1474	WP1843	N3	1455/1549	55:06N/60:24N	71:00	45 45	165 165	226	18, 2 10, 7	11,700 8,600	77 55
	1475	WP1844	N4	1551/1623	60: 36N/63: 46N	71:00	45	100	440	10.7	8, 800	22
715	1476	<b>WP1861</b>	N4	1219/1309	44:00N/49:44N	71:00	55	155	220	11.7	16, 200	129
PN	1477	WP1862	N2	1311/1411	49:58N/56:10N	71:00	55	155	221	14.0	17,700	137
	1478	WP1863	N3	1413/1457	56:24N/61:50N	71:00	55	155	225	10.0	17, 200	143
	1479	WP1864	N4	1459/1554	62:04N/68:00N	71:00	55	155	227	12, 4	16, 200	134
718	1480	WE1232	N1	1141/1235	35:00 S/28:47 S	62:00	58/64.9	125	213	7.3	5, 500	71
EN	1481	WE1233	NZ	1237/1330	28: 33 8/22: 21 5	62:00	65/64.9	121	209	6.7	9, 300	105
	1482	WE1234	N3	1332/1426	22:08 S/15:55 S	62:00	64, 9/65.7	121	205	6.9	10,700	105
	1483	WE1235	N4	1428/1522	15:418/09:308	62:00	65.7/66	121	209	6.7	14, 800	125
717	1484	WE1228	N1	1234/1327	35:00 S/40:24 S	64:00	45	165	213	18.7	1, 900	25
ES	1485	WE1229	NS	1329/1422	40: 33 8/45: 54 8	64:00	45	165	208	19.2	1, 62D	14
	1486	WE1230	N3	1424/1518	46:068/51:278	64:00	45	165	211	19.4	2,100	21
	1487	WE1231	N4	1520/1614	51:398/57:008	64:00	45	165	217	18.6	1,800	19
33 10	4050 1											
22 May	1999 M	lission 61										
717	1488	WE1236	N1	1200/1245	35:00 8/40:00 8	64:00	60	134	213	7.5	5, 300	63
E8	1489	WE1238	N3	1804/1846	39:468/35:008	64:00	61	134	213	6.8	5,700	70
718	1490	WE1240	N1	1226/1311	35:00 S/40:00 S	64:00	64/64.6	124	213	5, 7	5, 100	62
ES	1491	WE1242	N3	1441/1521	39:46 5/35:00 S	64:00	66	120	213	4. 6	6, 400	66
24 May	1959 N	fission 61X										
714	1492	WPL1012	Ni	1205/1254	44:00N/38:16N	71:00	60	135	213	8. 3	14, 800	138
PR	1493	WPL1013	N2	1256/1346	38:02N/32:26N	71:00	60	135	211	8.5	15,700	116
	1494	WPL1014	N3	1348/1446	32:12N/25:12N	71:00	60	135	211	9. <del>9</del>	16, 200	135
	1495	WPL1015	N4	1448/1529	24:58N/20:04N	71:00	60	135	211	7.0	16, 400	118
745	1496	WPL1084	N1	1135/1225	44:00N/38:44N	71:00	61.4/64.9	126	218	6, 5	19, 800	207
PR	1497	WPL1085	N2	1227/1317	38:00N/32:14N	71:00	64.9/65.4	120	216	5. 9	18, 900	224
	1498	WPL1086	N3	1319/1410	32:00N/26:14N	71:00	65.5/66.3	118	215	5, 8	21,000	234
	1499	WPL1087	N4	1412/1502	26:00N/20:00N	71:00	66.3/67.4	114	213	5, 2	23,000	270
26.14-	4050 1	41-21 43										
40 MA	y 1959 A	dission 62										
714	1500	WP1865	N1	1229/1322	16:00N/21:52N	64:00	60	135	207	1.3	10, 700	104
RN	1501	WP1866	N2	1323/1406	21:59N/26:45N	64:00	60	135	212	7.3	15, A O	146
	1502	WP1867	N3	1407/1503	26:52N/32:50N	64:00	60	135	212	9.5	15, 100	156
	1503	WP1868	N4	1504/1552	32:57N/38:01N	64:00	60	135	212	8.2	15, 500	112
716	1508	WPL1088	N1	1153/1243	16:00N/10:14N	64:00	60	135	203	9.0	5, 200	63
RE	1509	WPL1089	N2	1245/1335	10:00N/04:14N	64:00	60	135	203	9.0	4, 300	40
	1510	WPL1090	N3	1337/1433	04:00N/01:46 8	64.00	60	135		10.0	3, 700	37
	1511	WPL1091	N4	1435/1529	02:00 8/07:45 8	64:00	60	135	204	9.7	3,000	23
	1504	WE1628	N1	1143/1243	32: 21 S/25: 21 S	59:05/60:55	60	135	207	10.5	3, 300	48
717	4007	WE1629	N2	1245/1345	25:08 S/18:42 S	60:59/62:57	60	135		10.5	3, 700	44
717 ER	1505			1348/1448	18:185/11:345	63:03/63:38	60	135		10.5	4, 500	39
717 ER	1505 1506	WIC1630	N3									- 7
	1505 1506 1507	WE1630 WE1631	N3 N4	1451/1551	11:17 S/04:28 S	63:41/64:32	60	135	207	10.5	2,400	16
ER	1506 1507	W£1631	N4	1451/1551	11:17 S/04:28 S							-
ER 718	1506 1507 1512	WE1631 WE1632	N4 N1	1451/1551	11:175/04:2BS 35:005/40:195	64:00	51	158	213	13.3	610	8
ER	1506 1507	W£1631	N4	1451/1551	11:17 S/04:28 S				213 211			-

lsotopes, Inc.

Table 4, 2 (continued)

C No.	HASP No.	Air Force No.	Filter	Time (2)	Latitude	Longitude (*W)	Altitude (1000 ft.)	(Kt)	Temp.	10 ³ SCF	Total Bata	8r ⁹⁶
May	1959 M	ission 63										
718	1516	WE1248	Ni	1210/1258	35:00 S/40:00 S	64:00	40	170	215	20.1	1, 320	2:
ES	1517	WE1250	N3	1611/1703	39:48 8/35:00 S	64:00	40	170	215	21.7	1,850	2
716	1518	WE1244	N1	1230/1320	35:00 8/40:00 8	64:00	50	160	218	14. 3	2, 700	5
es	1519	WE1246	N3	1715/1804	39:47 8/35:00 S	64:00	51/43	160	218	44.2	2, 900	4
2 June	1959 M	lission 64										
715	1520	WP1885	Ni	1443/1528	38:00N/32:44N	64:00	65/66.8	121	113	5.4	19, 100	21
RN	1521	WP1886	N2	1530/1615	32:30N/27:14N	64:00	66.8/67.2	116	210	4.9	24,000	20
	1522	WP1887	N3	1617/1703	27:00N/21:38N	64:00	67.2/67.7	116	208	5.0	22,000	19
	1523	WP1888	N4	1705/1751	21:24N/16:02N	64:00	67.7/68.2	115	208	4.9	21,000	20
714	1528		Hi	1140/1250	16:00 N/08:12 N	66:13/64:00	63	126	209	22.7	15,500	14
rs	1529		H2	1256/1322	07:30N/04:24N	64:00	63	126	208	8.5	10, 100	1
	1530		H3	1325/1415	04:10N/01:36 8	64:00	63	126	206	16.5	10,000	1:
	1531		H4	1421/1507	02:18 8/07:42 8	64:00	63	126	205	15.5	8, 100	. I
	1524	WP1897	Ni	1516/1606	07:45 8/02:05 8	64:00	66.5/69.3	114	208	5, 2	22,000	1
	1525	WP1898	N2	1607/1058	01:58 8/03:50N	64:00	69.3/70.2	109	208	4.7	24,000	1
	1526	WP1899	N3	1659/1752	03:57N/09:51N	64:00	70.2/70.4	108	244	4.6	28,000	2
	1532		H5	1659/1750	03:57N/09:49N	64:00	70.2/70.4	108	211	10.1	30,000	2
	1527	WP1900	N4	1753/1845	10:03N/16:00N	64:00	70.4/70.5	107	214	4.4	32,000	3
	1533		Ħ6	1753/1845	10:03N/16:00N	64:00	70.4/70.5	107	214	10.1	35,000	3
716	1538	WE1276	Ni	1140/1217	35:00 8/30:45 8	62:00	61.2/64.4	127	213	5. 1	4, 800	
EN	1539	WE1277	NZ	1221/1259	30:45 8/35:00 8	62:00	64/65	121	213	4.7	4, 400	
	1540	WE1278	N3	1301/1324	35:07 8/35:00 S	61:53/58:30	65	121	213	2.8	4, 100	
	1541	WE1279	N4	1326/1826	35:008	62:00	65	121	213	36.6	4, 600	
718	1534	WE1280	Ni	1230/1316	35:00 S/40:18 S	64:00	64. 4/65	124	215	5.8	5,400	
ES	1535	WE1281	N2	1318/1404	40: 31 S/45: 49 S	64:00	64.8/64.8	121	219	5.4	6, 300	
	1536	WE1282	N3	1406/1452	46:03 8/51:21 8	64:00	64.9/66	121	221	5, 3	5,700	
	1537	WE1283	N4	1454/1541	51:35 S/57:00 S	64:00	66/66.6	121	223	5.2	4, 600	
5 Jun	o 1959 ]	Mission 65										
715	1546	₩₽1909	Ni	1226/1312	16:00N/21:08N	64:00	60	135	204	8.3	8, 800	
RN	1547	WP1910	N2	1314/1400	21;21N/26;29N	64:00	60	135	206	8, 1	10,600	
	1548	WP1911	N3	1402/1454	26:42N/32:30N	64:00	60	135	208	9.1	12, 300	
	1549	WP1912	N4	1456/1543	32:43N/37:57N	64:00	60	135	211	8.0	14, 300	
714	1553	WP1904	Ni	1153/1242	16:00N/10:14N	64:00	59.7	135		8.8	8,700	
RS	1550	WP1901	N2	1245/1335	10:00N/04:14N	64:00	60	135		8.9	7,100	
	1551	WP1902	N3	1337/1426	04:00N/01:38 B	64:00	60	135		8.7	4, 600	
	1554		Hi	1337/1426	04:00N/01:38 S	64:00	60	135		19.8	5, 200	
	1552	WP1903	N4	1428/1519	01:52 8/07:44 8	64:00	60	135		9.1	3, 100	
	1555	***	<b>H2</b>	1442/1519	03:28 8/07:44 8		60	135		14.9	5, 200	
	1556		H3	1538/1612	05:34 8/01:40 8	64:00	55	155	199	19.5	1,030	
718	1542	WE1288	Ni	1200/1243	35:00 S/40:00 S		60	135		7.3	4, 900	
ES	1543	WE1290	N3	1739/1822	39:46 8/35:00 S	64:00	60	135	213	7.3	4, 700	
716	1544	WE1284	Ni	1230/1313	35:00 8/40:00 8		64.2/65	123		5, 4	4, 700	
ES	1545	WE1286	N3	1834/1912	39:46 8/35:00 8	64:00	69. 2/70. 1	109	213	3.3	5, 500	

Table 4.2 (continued)

IC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS (Kt)	Temp.	10 ³ SCF	dpm/10 Total Beta	Sr 90
June		ission 66								<del></del>		
115	.1565	WP2129	Ni	1226/1312	16:00N/21:16N	64:00	55	155	200	12.0	5, 700	50
RN	1566	WP2130	N2	1312/1400	21:19N/26:45N	64:00	55	155	201	12.3	3, 700	28
	1567	WP2131	N3	1401/1440	26:52N/31:20N	64:00	55	155	202	10.0	5,500	53
	1568	WP2132	N4	1444/1604	30: 33N/21: 47N	64:14/66:31	55	155	201	20.7	4, 200	55
144	1569	WP1925	N1	1153/1243	16:00N/10:26N	64:00	55	155	200	13.1	6, 300	64
rs	1570	WP1926	N2	1245/1336	10:12N/04:32N	64:00	55	155	200	13.3	4, 800	26
	1571 1572	WP1927 WP1928	N3 N4	1338/1432 1434/1526	04:18N/01:42 S 01:56 5/07:44 S	64:00 64:00	55 55	155 155	200 200	14. 1 13. 5	900 680	
716	1557	WE1292	N1	1145/1243	35:00 8/29:02 8	62:00	45	165	213			
EN	1558	WE1293	N2	1244/1343	28:50 8/22:57 8	62:00	45	165	211	20.5 21.1	790 710	9
	1559	WE1294	N3	1344/1440	22:45 5/16:548	62:00	45	165	213	19.8	180	<
	1560	WE1295	N4	1443/1530	16:425/11:268	62:00	45	165	215	16.4	140	< :
718	1561	WE1296	N1	1234/1330	35:00 8/39:52 8	64:00	45	165	211	20.0	690	:
E8	1562	WE1297	N2	1332/1429	40:048/44:568	64:00	45	165	209	20.6	670	5
	1563 1564	WE1298 WE1299	N3 N4	1431/1528 1530/1627	45:08 S/50:10 S 50:22 S/55:14 S	64:00 64:00	45 45	165 165	209 209	20, 6 20, 6	1, 450	15
		W E44477	NT	1930/182/	30,220,33,110	04;00	73	103	209	20.0	1,680	22
June	1959 A	lission of Op	portunity									
716	1635	WE1356	N1	1219/1307	34:498/33:508	58: 33/65: 45	45	165	215	16.7	470	
EO	1636	WE1357	N2	1309/1409	33:47 8/32:55 8	65:56/68:50	45	165	215	21.1	1, 330	,
	1637	WE4358	N3	1417/1445	34: 37 8/34: 59 8	68:25/63:10	45	165	215	9.8	970	
	1638	WE1359	N4	1447/1533	35:00 8/35:18 8	62:58/57:50	45	165	215	16. 1	670	
2 June	1959 A	fission 67										
705	1573	WP2133	N1	1225/1311	16:00N/21:22N	64:00	62,6/63,6	128	211	6.6	20,000	16
RN	1574	WP2134	M2	1315/1359	21:50N/26:58N	64:00	64	126	213	5.9	17,000	15
	1575	WP2135	N3	1401/1443	27:12N/32:06N	64:00	64/64.6	123	214	5.4	19, 400	17
	1581 1576	WP2136	H4 N4	1401/1443 1446/1534	27:12N/32:06N 32:20N/38:04N	64:00 64:00	54/64. 6 64. 6	124	214 215	12.4	19,700	20
	1582	W-2130	H2	1446/1534	32:20N/38:04N	64:00	64, 6	123	215	6.0 13.7	18, 900 20, 000	21 23
	1583		Н3	1539/1615	38:00N/33:36N	64:14/64:38	60	135	215	13,7	19,000	18
	1584		H4	1621/1651	33:09N/29:30N	64:42/65:18	60	135	214	11,4	19,700	24
	1585		H5	1653/1727	29:14N/25:21N	65:21/65:42	60	135	212	13.1	14, 600	14
	1586		Н6	1729/1805	25:06N/20:58N	65:55/66:40	60	136	211	14, 1	12, 300	13
714	1577	WP2137	Ni	1153/1245	16:00N/10:10N	64:00	64/65	122	210	6.7	16, 400	16
RS	1578	WP2138	N2	1247/1340	09:56N/03:58N	64:00	65	122	209	6.7	17,000	15
	1579 1580	WP2139 WP2140	N3 N4	1342/1429 1433/1524	03:44N/01:32 S 01:59 S/07:43 S	64:00 64:00	65 65	122	209 209	6. 0 6. 4	20,000 13,400	13 20
716	1589	WE1260	N1	1227/1319	35:00 S/40:00 S	64:00	50	160	213	15, 2	270	
E8	1590	WE1262	N3	1818/1904	39:47 8/35:00 S	64:00	50.5	160	213	13, 3	1,510	
i 4 June	1959 1	Mission 68X										
714	1591	WP2153	N1	1223/1314	20:00N/25:52N	71:00	55	155	203	13.0	7 100	_
RP	1592	WP2154	NZ	1316/1407	26:06N/31:58N	71:00	55	155	205	12.8	7, 300 9, <b>4</b> 00	7
	1593	WP2155	N3	1410/1500	32:19N/38:04N	71:00	55	155	210	12,4	10, 900	10
	1594	WP2156	N4	1502/1555	38:18N/44:00N	71:00	55	155	215	12.7	13, 600	13
705	1599	WP2145	N1	1154/1245	20:00N/25:52N	71:00	60	137	210	9.0	16, 600	11
RP	1603	***	H4	1154/1245	20:00N/25:52N	71:0Ó	60	137	210	20, 2	15, 800	13
	1600	WP2146	142	1247/1338	26:06N/31:58N	71:00	60	137	210	9.0	17, 900	16
	1604 1601	WP2147	H2 N3	1247/1338 1340/1431	26:06N/31:58N 32:12N/38:04N	71:00 71:00	60 60	137	210	20. Z	14,500	14
	1605	WF6141	H3	1340/1431	32:12N/38:04N	71:00	60	137 137	214 214	8. 8 19. 8	18, 900 21, 000	14
	1602	WP2148	N4	1433/1522	38:48N/44:00N	71:00	60	137	217	8.3	14, 500	12
	1606		H4	1433/1522	38:18N/44:00N	71:00	60	137	214	18.7	21,000	14
715	1607	WP2245	N1	1255/1346	20:00N/25:52N		64.4/65.2			6.6	16, 300	1
RP	1511 1608	WP2246	H1 N2	1255/1346 13 <b>48</b> /1439	20:00N/25:52N 26:06N/31:58N		64.4/65.2 65.2/65.3			15, 1	21,000	2:
	1612	W P4410	H2	1348/1439	26:06N/31:58N	71:00	65, 2/65, 3			6, Z 13, 9	19, 200 23, 000	11
	1609	W1'2247	N3	1441/1532	32:12N/38:04N		65.2/65.8			5.8	22,000	10
	1613	•••	H3	1441/1532	32:12N/38:04N		65.2/65.8			13.2	19, 800	20
	1610	WP2248	N4	1534/1624	38: 18N/44: 00N	71:00	65.8/66	118	220	5, 4	22,000	Z
	1614		H4	1534/1624	38:18N/44:00N	71:00	65.8/66	118	220	12, 3	22,000	22

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	dpm/10	
	No.	No.	2 0.02	(Z)		(.M)	(1000 ft.)	(Kt)	(*K)	SCF	Beta	_sr9
June	1959 M	ission 68										
705	1615	WP2157	Ni	1224/1316	44:00N/49:40N	71:00	50	160	220	14.7	12, 100	12
∍ <i>V</i> ₁	1616	WP2158	N2	1319/1411	50:00N/55:50N	71:00	50	164	221	. 15, 2	11,000	8
	1617	WP2159	N3	1413/1506	56:04N/62:00N	71:00	50	159	222	14, 7	12, 800	10
	1619		Hŧ	1413/1506	56:04N/62:00N	71:00	50	159	222	32, 6	14, 100	11
	1618	WP2160	N4	1508/1559	62:13N/68:00N	71:00	50	160	223	14. 3	12, 900	10
	1620		H2	1508/1559	62:13N/68:00N	71:00	50	160	223	31, 5	17,200	14
	1621		H3	1605/1650	67:43N/62:42N	70:15/68:30	55	155	206	124.7	15, 300	1
	1622		H4	1710/1735	60:28N/57:41N	68: 30	55	156	216	13.1	16,000	1.
	1623		H5	1738/1824	57:21N/52:13N	68: 30	55	155	216	24,0	15, 100	10
	1624		H6	1826/1911	52:00N/47:00N	68: 30/72: 14	55. 6	155	222	22.2	15, 900	10
14	1625	WP2165	N1	1220/1309	44:14N/49:49N	71:00	60	135	223	7.9	14, 200	1
>N	1626	WP2166	N2	1311/1401	50:03N/55:52N	71:00	60	135	225	7.9	17,500	1
	1627	WP2167	N3	1403/1453	56:06N/61:56N	71:00	60	135	226	7.9	20,000	2.
	1629		Hi	1403/1452	56:06N/61:56N	71:00	60	135	226	17.5	19, 200	2
	1628	WP2168	N4	1454/1546	62:08N/68:00N	71:00	60	135	228	8.1	19, 900	2:
	1630		H2	1454/1546	62:08N/68:00N	71:00	60	135	228	18.4	17,800	2
	1631		H3	1552/1638	67:39N/62:52N	70:10/68:30	61.2/64.8	121	228	12.1	47,600	2.
	1632		H4	1641/1730	62:38N/56:47N	68: 30	65	121	226	12.7	24,000	2
	1633		H5	1732/1813	56: 33N/51:43N	68:30	65	122	225	10.8	19,800	2
	1634		H6	1815/1859	51:29N/47:08N	68: 30/72:14	65	121	223	11.6	22,000	S
717	1655	WP1277	N1	1147/1334	16:00N/03:42N	64:00	65/66	124	208	13,8	17, 100	1
Œ	1656	WP1278	N2	1336/1524	03:29N/08:57 S	64:00	66/68	118	203	12.7	15, 800	1
	1657	WP1279	N3	1538/1713	10:45 S/23:00 S	64:00	68/69	111	208	9. 3	15,600	1
	1658	WP1280	N4	1715/1910	23:148/33:35 S	64:00	69/70.5	108	213	10.0	8, 200	1
718	1669	WE1364	N1	1205/1305	35:008	62:00	50	165	213	18.3	640	
EO	1670	WE1365	NZ	1311/1411	35:00 S	62:00	55	155	213	14.5	4,070	
	1671	WE1366	N3	1422/1552	35:008	62:00	65	121	213	11.0	6, 400	
	1672	WE1367	N4	1554/1824	35:00 <i>8</i>	62:00	66/68.2	118	213	15.9	6,700	
716	1659	WE1360	N1	1202/1246	35:00 8/39:54 8	64: Ô0	55	140	213	9.0	2, 300	
es	1660	WE1361	N2	1248/1329	40:06 S/45:00 S	64:00	55	140	213	8.4	3, 000	
	1661	WE1362	N3	1331/1417	45:12 8/50:06 S	64:00	55	140	213	9.5	3,700	
	1662	WE1363	N4	1432/1541	49:00 S/42:00 S	64:00	55	140	213	14.2	4, 000	
) Jun	a 1959 1	Mission_69										
705	1639		Н4	1205/1302	42:48N/44:05N	73:48/72:44	50	160	221	35.5	13, 300	
PO	1640		H2	1304/1409	43:52N/44:25N	72:56/70:45	50	160	221	40.8	10, 800	
. •	1641		H3	1411/1511	44:24N/43:39N	71:06/70:12	50	160	221	37.4	12, 400	
	1642		H4	1513/1616	43:50N/42:26N	70:06/71:16	50	160	221	39.3	11, 800	
	1643		H5	1618/1719	42:23N/42:36N	70:58/73:03	50	160	221	38.0	12, 100	
	1644		H6	1721/1824	42:35N/43:22N	72:47/73:44	50	160	221	39.3	11,700	
715	1645		H4	1244/1343	42: 23N/42: 36N	70:58/72:55	65	121	220	15.8	21,000	
PO	1646	***	H2	1345/1445	42:35N/42:53N		65	121	220	16.2	18, 800	
	1647	•	н3	1447/1549	42: 42N/43: 48N	73:47/72:59	65	121	220	16.6	23,000	
	1648		H4	1551/1653	43:36N/44:21N	72:10/71:32	65	121	220	16.6	23,000	
	1649		H5	1655/1757	44:19N/44:25N	71:51/69:50	65	121	220	16.6	14, 600	
	1650		Н6	1759/1900	44:28N/43:28N		65	121	220	16.5	25, 000	
718	1651	WP1416	N1	1243/1429	32:23 8/20:08 S	59:03/62:29	62.4/65.2	121	213	13, 5	6, 100	
ER	1652	WP1417	N2	1431/1610	19:53 S/08:15 S		65, 2/66, 4	118	215	11.2	15, 900	
	1653	WP1418	N3	1612/1758	08:01 S/01:24N		66. 4/67. 6	115	215	11.0	26,000	

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Al titude	IAS	Temp.	103	dpm/i00	
,,,	No.	No.		(Z)		{•W}	(1000 ft.)	(Kt)	(*K)	SCF	13eta	Sr ⁹⁰
June	1959 M	ission 69X										
05	1673	WPL4040	Ni	1137/1230	44:00N/37:52N	71:00	60	136	218	8.9	15, 900	18
R	1677		Hi	1137/1230	44:00N/37:52N	71:00	60	136	218	19.5	17, 900	20:
	1674	WPL1041	N2	1232/1331	37:38N/30:48N	71:00	60	136	215	10.0	13,600	15
	1678 1675	WPL1042	H2 N3	1232/1331 1333/1416	37:38N/30:48N 30:34N/25:39N	71:00 71:00	60 60	136 136	215 211	22, 6 7, <b>4</b>	10, 700 9, 900	18 10
	1679	WPLICAL	H3	1333/1416	30:34N/25:39N	71:00	60	136	211	16.9	10,800	11
	1676	WPL1043	N4	1418/1505	25;25N/20;01N	71:00	60	137	207	8, 4	10, 900	11
	1680		H4	1418/1505	25:25N/20:01N	71:00	60	137	207	19.0	13, 900	13
15	1681	WPL1056	N1	1207/1257	44:00N/38:19N	71:00	60/64.6	128	223	6, 5	18, 400	22
R	1685		H1	1207/1256	44:00N/38:19N	71:00	60/64.6	128 120	223 219	14, 5 5, 8	19, 600 20, 000	25 22
	1682 1686	WPL1057	N2 H2	1259/1349 1256/1347	38:05N/32:24N 38:05N/32:24N	71:00 71:00	64.7/65.4 64.7/65.4	120	219	13.7	20,000	21
	1683	WPL1058	N3	1351/1445	32:10N/26:02N	71:00	65.7/66.2	118	216	6.0	19, 100	21
	1687		H3	1349/1445	32:10N/26:02N	71:00	65.7/66.2	118	216	14, 2	21,000	23
	1684	WPL1059	N4	1447/1538	25:48N/20:00N	71:00	66/67	117	214	5, 6	18,500	21
	1688	***	H4	1445/1538	25:48N/20:00N	71:00	66/67	117	214	13, 2	21,000	26
June	1959 M	lission 70										
05	1689		Hi	1210/1245	21:05N/25:03N	66: 38/65:55	63	127	210	11.4	15,800	20
N.	1690		HZ	1247/1323	25:16N/29:20N	65:53/65:18	63	127	211	11.7	20,000	49
	1691		H3	1325/1400	29: 34N/33: 37N	65:16/64:37	63	127	213	11.2	17, 400	19
	1692 1695	WP1565	H4 Ni	1402/1439 1444/1529	33:52N/38:00N 38:00N/32:44N	64: 36/64: 14 64:00	63 63/65	127 124	214 218	11.7 5.6	19, 600 19, 300	11
	1696	WP1566	N2	1531/1616	32: 30N/27: 06N	64:00	65/66	120	217	5. 2	19, 400	2
	1697	WP1567	N3	1618/1704	26:52N/21:28N	64:00	66/67	117	215	5.0	20,000	2
	1693	•••	H5	1618/1704	26:52N/21:28N	64:00	66/67	117	215	11.4	18, 400	20
	1698	WP1568	N4	1706/1751	21:14N/15:58N	64:00	67/68	113	214	4.4	21,000	2
	1694		Н6	1706/1751	21:14N/15:58N	64:00	67/68	113	214	10.2	25,000	2
115	1700	WP1569	N1	1515/1604	07:45 8/02:03 S	64:00	66. 4/68. 3	115	208	5.3	19,800	2
RS	1701	WP1570 WP1571	N2	1605/1655	01:568/03:53N	64:00	68.3 68.3/69	112	209 209	5.0 5.0	28,000 31,000	2
	1702 1703	WP1572	N3 N4	1656/1748 17 <b>4</b> 9/1839	04:00N/10:03N 10:10N/16:00N	64:00 64:00	69/70	109	210	4.6	27,000	2
	1699	WF1514	H4	1140/1839	16:00N/	66:13/64:00	63/	118	209	109.3	19,500	1
					07:45 8/16:00N		66, 4/70					
717	1721	WE1426	N1	1206/1233	35:00 S/28:47 S	62:00	64/63.6	128	215	3.7	11,200	4
EN	1722	WE1425	NZ	1235/1328	28: 33 8/22: 20 8	62:00	63.6/65.2	120	21B	6.4	12,800	1
	1723 1724	WE1424 WE1427	N3 N4	1330/1427 1428/1522	22;07 8/15;53 8 15; 38 8/09; 32 8	62:00 62:00	65, 2/66, 4 66, 4/67, 6	117	211 215	6, 5 5, 7	<b>13, 400</b> <b>16, 500</b>	1
716	1725	WE1420	N1	1232/1320	35; 00 8/40; 18 S	64:00	64.8/66	122	221	5. 6	5,000	
ES	1726	WE1421	N2	1322/1404	40: 31 8/45: 49 8	64:00	66/67	120	216	4.8	6,700	
	1727 1728	WE1422 WE1423	N3 N4	1405/1456 1457/1543	46:038/51:218 51:358/57:008	64:00 64:00	66.9/67.5	116	216 216	5. 4 4, 5	5,600 4,400	
	2,20	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		100,700	31,352,511			•				
		Mission 71										
705	1704	WP1753	N4	1226/1311	16:00N/21:14N	64:00	63. 9/64. 5		212	6.0	16,600	
RN	1705	WP1754	N2	1312/1359	21: 21N/26: 43N	64:00	64, 5/64, 9 64, 9/65, 1		212	5.8	18,400	1
	1706 1708	WP1755	N3 H1	1400/1448 1400/1448	26:50N/32:12N 26:50N/32:12N	64:00 64:00	64. 9/65. 1 64. 9/65. 1		214 214	5. 8 13. 3	17, 900 22, 000	2
	1708	WP1756	H1 N4	1448/1539	32:19N/38:00N	64:00	65, 1/65, 3			6.1	19, 200	•
	1709	WF1150	H2	1448/1539	32: 19N/38:00N	64:00	65. 1/65. 3			13.9	16, 900	- 1
	1710		H3	1543/1618	38:00N/33:54N	64: 14/64: 37		135		12, 9	21,000	
	1711		H4	1620/1656	33: 47N/29: 58N			135		13.8	15,500	
	1712	•••	H5	1702/1731	28: 57N/25: 25N			135			14, 100	
	1713		Н6	1734/1810	25: 18N/21: 05N			135			13, 100	
715	1714	WP1697	N1	1153/1246	16:00N/10:06N		65	121			17, 400	
RS	1715	WP1698	N2	1248/1338	09: 52N/04: 18N		65	121			15,000	
	1716 1718	WP1699	N3 H1	1340/1432 1340/1432	04:04N/01:50 S 04:04N/01:50 S		65 65	121			13, 500 15, 900	
	1718	WP1700	N4	1434/1526	02:048/07:458		65	121			12, 100	
	1719	#F1100	H2	1434/1526	02:04 8/07:45 8		65	121			13, 200	
	1720		H3	1530/1624	07:45 8/01:56 8		60	135			3, 200	
717	1729	WE1436		1234/1326	35:00 8/40:00 8		40	170			1,110	
F.S	1730	WE1438	N3	1634/1729	39:46 S/35:00 S	64:00	40	170	215	22.6	1,070	
716	1731			1205/1251	35:00 S/40:00 S		50	160			1,380	
ES	1732	WE1434	N3	1728/1815	39: 46 8/35: 00 8	3 64:00	50	€ ful	0 243	13,7	1,650	

Table 4, 2 (continued)

AC No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp,	103	dpm/10 Total	00 SCF Sr ⁹⁰
	No.	No.		(2)		(*W)	(1000 ft.)	(Kt)	(,K)	SCF	Beta	Sr /
1 July	1959 M	ission 72										
705	1733	WP1805	N1	1226/1312	16:00N/21:18N	64:00	60	135	206	8. 1	10, 800	103
RN	1734	WP1806	N2	1314/1400	21: 32N/26: 50N	64:00	60	135	207	8. 1	13, 400	107
	1735	WP1807	N3	1405/1449	27:26N/32:22N	64:00	60	135	208	7.6	14, 100	109
	1737	***	H1	1402/1448	27:04N/32:21N	64:00	60	135	208	18.2 7.7	13, 300	145
	1736	WP1808	N4	1452/1537	32:36H/38:00N	64:00	60	135	211	7.7	13, 900	135
	1738		H2	1448/1536	32: 35N/38:00N	64:00	60	135	211	18, 6	16, 100	167
	1739		H3	1543/1615	38:00N/34:06N	64: 14/64: 35	63. B/65	124	215	9. 1	17,500	223
	1740		H4	1617/1650	33:50N/30:00N	64: 36/65: 12	65	121	215	9.0	18, 800	248
	1741		H5	1652/1727	29:56N/25:41N	65;14/65;48	65	121	214	9, 7	22,000	254
	1742		H6	1730/1807	25:27N/21:05N	65:51/66:38	65	121	213	10,4	18, 300	212
715	1743	WP1809	Ni	1153/1247	16:00N/10:10N	64:00	60	136	206	9.6	8, 400	73
RS	1744	WP1810	N2	1249/1343	09:56N/04:13N	64:00	60	135	206	9. 4	6, 100	66
	1745	WP1811	N3	1345/1448	03:59N/02:47 S	64:00	60	135	206	11.2	3,600	31
	1747		Hi	1345/1448	03:59N/02:47 S	64:00	60	135	206	25.4	4,700	39
	1746	WP1812	N4	1449/1533	03:01 8/07:45 8	64;00	60	135	206	7.7	3, 600	31
	1748		H2	1449/1533	03:15 8/07:45 8	64:00	60	135	206	17.4	4,500	42
	1749		H3	1537/1628	07:45 \$/01:59 \$	64:00	63/65	125	213	15.0	16,000	138
	1750		H4	1631/1720	01:45 S/03:47N	64:00	65/65.2	125	213	14. 3	19, 200	193
	1751		H5	1722/1811	04:01N/09:40N	64:00	65.3/65.1	125	213	14, 1	18, 100	183
	1752	*	H6	1813/1910	09:54N/16:00N	64:05/66:14	65.1/64.8	128	213	17.1	17,200	184
2 July	1959 N	ission 73A										
716	1753	WE1440	Ni	1229/1312	35:00 S/40:00 S	64:00	60	135	215	7.2	4, 500	51
ES	1754	WE1442	N3	1812/1852	39:46 S/35:00 S	64:00	60	135	215	6.7	5, 100	62
		===	• • •	·								
717	1755	WE1444	N1	1159/1246	35:00 8/40:00 8	64:00	63.2/63	125	215	6. 2	6, 400	96
es	1756	WE1446	N3	1822/1905	39:46 S/35:00 S	64:60	66.8/61.6	122	215	5, 3	6, 500	82
3 July	1959 h	dission 73B										
715	1761		H1	1140/1232	16:00N/10:11N	66:13/64:09	64.5/66	120	210	14.6	17, 500	190
RS	1762		H2	1235/1325	09:57N/04:14N	64:05/64:00	65.6/66.5	118	209	13. 2	21,000	210
	1763		н3	1327/1417	04:00N/01:45 S	64:00	66.5/66.9	117	209	12.7	30,000	25
	1764		H4	1420/1508	02:068/07:385	64:00	66.9/68	114	209	11.4	30,000	25
	1757	WP1821	N1	1512/1600	07:388/01:548	64:00	68, 1/68, 3	112	209	4.7	26,000	29
	1758	WP1822	N2	1603/1647	01:40 8/03:28N	64:00	68.3/68.7	111	209	4. 3	29,000	32
	1759	WP4823	N3	1648/1739	03: 42N/09: 48N	64:00	68.7/69.1	110	209	4. B	27,000	28
	1765		H5	1604/1739	01:40 S/09:42N	64:00	68, 3/69, 1	110	209	20,7	29,000	26
	1760	WP1824	N4	1741/1831	10:02N/16:02N	64:00	69.1/69.7	110	210	4.6	24,000	230
	1766		H6	1741/1831	09:56N/16:02N	64;00	69, 1/69, 7	110	210	10.4	23,000	231

isotopes, Inc.

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	LAS	Temp.	100	dpin/:100	
	No.	No.		(Z)		(*W)	(1000 ft.)	(Kt)	(°K)	SCF	Beta	8x ⁹
July	1959 M	lasion 74										
5	1767	W.P1933	N1	1228/1312	16:00N/21:14N	64:00	63.3/64	124	212	5.8	15.700	15
i	1768	WP1934	N2	1314/1402	21:28N/26:56N	64:00	64, 1/64, 2	124	212	6, 3	17, 400	41
•	1769	WP1935	N3	1403/1445	27:10N/32:17N	64:00	64. 1/65	122	216	5, 2	19,600	41
	1771	***	H4	1403/1445	27:10N/32:17N	64:00	64.1/65	122	216	11.8	21,000	2
	1770	WP1936	N4	1448/1533	32: 31N/38:00N	64:00	65	122	218	5, 5	17,600	1
	1772		H2	1448/1533	32: 31N/38:00N	64:00	65	122	218	12,5	20,000	4
	1773		H3	1537/1613	38:00N/33:49N	64: 14/64: 35	60	138	213	14. 1	15, 500	1
	1774		H4	1615/1647	33: 35N/29: 43N	64; 36/65; 13	60	137	211	12.6	14, 900	1
	1775		H5	1650/1722	29: 29N/25: 33N	65:16/65:49	60	135	207	12.9	14, 100	1
	1776	*	H6	1725/1801	25:19N/21:05N	65:53/66:38	59.8/58.5	135	205	14, 4	12,800	1
4	1777	WP1921	N1	1154/1246	16:00N/10:08N	64:00	65	121	212	6, 4	14, 100	1
3	1778	WP1922	NZ	1248/1338	09:54N/04:14N	64:00	65	121	212	6, 1	14,000	1
•	1779	WP1923	N3	1340/1431	04:00N/01:46 S	64:00	£5	121	212	6, 3	16,500	1
	1.784	•••	H1	1340/1431	04:00N/04:46 B	64:00	65	121	212	14. 3	15,900	1
	1782		H3	1433/1523	02:00 5/07:45 8	64:00	65	121	203	14.9	11,700	1
	1783		H4	1528/1621	07:45 8/01:57 8	64:00	60	135	203	21.4	4,800	
	1784		H5	1623/1719.	01: 43 5/03: 44N	64:00	60	135	203	22.8	5, 100	
	1780	WP1924	N4	1709/1815	03:58N/10:32N	64:00/64:16	60	135	212	11.2	5,500	
	1785		H6	1817/1908	10:44N/16:00N	64:21/66:14	60	135	203	20.8	8,000	
18	1786	WE1829	N1	1508/1602	09: 30 8/15: 32 8	63:50/63:35	65	121	213	6.6	12, 400	1
N	1787	W£1830	N2	1604/1658	15:56 S/21:48 S	62:53	65	121	213	6. 6	6,000	
	1788	W£1831	N3	1700/1755	22: 02 S/28: 10 S	61:00	65	121	215	6.7	7,600	1
	1789	W£1832	N4	1757/1852.	28: 24 S/ 34: 32 S	58: 30/59: 30	65	121	215	6.7	6, 200	
17	1794	WE1452	N1	1132/1232	35:118	62:00	50	160	217	17.2	2,000	
0	1795	WE1453	N2	1235/1335	35:11 S	62:00	55	155	217	14, 3	3,000	
	1796	WE1454	N3	1345/1515	35:11 8	62;00	65	121	217	10.8	6, 300	
	1797	WE1455	N4	1517/1608	35:118	62;00	65,9/67,6	118	217	5. 4	6, 400	
16	1790	WE1448	N1	1232/1328	35:00 8/41:02-8	64;00	55	155	217	13.3	3, 600	
cs	1791	WE1449	N2	1330/1418	41:158/46:258	64:00	55	155	217	11.4	5,000	
	1792	WE1450	N3	1420/1504	46: 38 8/51: 26 8	64:00	55	155	223	10, 6	4, 200	
	1793	WE1451	N4	1506/1554	51: 39 S/56: 49 S	64:00	55	155	223	11.1	3, 500	
July	7 1959 N	dission 75										
715	1802	WP1917	Ni	1226/1311	16:00N/21:03N	64:00	60	135	206	8.3	7,200	
RN	1803	WP1918	N2	1329/1402	23:03N/26:52N	64:00	58.8/60	135	210	5.8	11, 800	
	1804	WP1919	N3	1405/1452	27:06N/32:23N	64:00	60	135	213	7.9	9, 400	
	1806	***	Hi	1405/1452	27:06N/32:23N	64:00	60	135	213	18.0	11,600	
	1805	WP1920	N4	1455/1542	32:37N/38:00N	64:00	60	135	214	7. 9	9, 400	
	1807		H2	1455/1542	32: 37N/38:00N	64:00	60	135	214	17.9	11, 100	
	1808		H3	1548/1620	38:00N/33:52N	64: 14/64: 35	59.2/64.6		216	9.0	17, 100	
	1809	***	Н4	1626/1657	33:29N/29:45N	64: 36/65: 13	64. 6	121	214	8,7	19, 400	
	1810		H5	1659/1732	29: 30N/25: 33N	65: 18/65: 49 65: 52/66: 38	65 65	121 121	213 212	9. 2 9. 8	17, 400 16, 000	
	1811		H6	1735/1840	25:19N/21:05N	02:25:00:38						
744	1811							425	200	0 >	4 000	
714 De	1811 1812	WP1997	Ni	1158/1248	16:00N/10:18N	64:00	60	135	200	9. 2	6, 900 6, 500	
	1811 1812 1813	WP1997 WP1998	NI NZ	1158/1248 1251/1342	16:00N/10:18N 10:04N/04:15N	64:00 64:00	60 60	135	200	9.3	6,500	
	1811 1812 1813 1814	WP1997 WP1998 WP1999	Ni N2 N3	1158/1248 1251/1342 1346/1435	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 8	64:00 64:00 64:00	60 60 60	135 135	200 200	9. 3 9. 0	6,500 5,100	
	1811 1812 1813 1814 1816	WP1997 WP1998 WP1999	Ni N2 N3 Hi	1158/1248 1251/1342 1346/1435 1346/1435	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 B 03:45N/01:48 B	64:00 64:00 64:00 64:00	60 60 60	135 135 135	200 200 200	9. 3 9. 0 20, 4	6,500 5,100 5,200	
	1811 1812 1813 1814 1816 1817	WP1997 WP1998 WP1999	Ni N2 N3 H1 H2	1158/1248 1251/1342 1346/1435 1346/1435 1437/1532	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 B 03:45N/01:48 B 02:02 S/07:45 S	64:00 64:00 64:00 64:00 64:00	60 60 60 60	135 135 135 135	200 200 200 200	9.3 9.0 20,4 22,8	6,500 5,100 5,200 3,800	
	1811 1812 1813 1814 1816 1817 1818	WP1997 WP1998 WP1999	Ni N2 N3 H1 H2 H3	1158/1248 1251/1342 1346/1435 1346/1435 1437/1532 1935/1622	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 8 03:45N/01:48 8 02:02 8/07:45 8 06:57 8/01:48 8	64:00 64:00 64:00 64:00 64:00 64:00	60 60 60 60 60	135 135 135 135 121	200 200 200 200 213	9.3 9.0 20.4 22.8 13.1	6,500 5,100 5,200 3,800 18,300	
	1811 1812 1813 1814 1816 1817 1818 1815	WP1997 WP1998 WP1999	N1 N2 N3 H1 H2 H3	1158/1248 1251/1342 1346/1435 1346/1435 1437/1532 1538/1622 1602/1703	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 5 03:45N/01:48 5 02:02 5/07:45 5 06:57 5/01:48 5 04:33 8/02:07N	64:00 64:00 64:00 64:00 64:00 64:00 64:00	60 60 60 60 60 65	135 135 135 135 121 121	200 200 200 200 213 200	9.3 9.0 20.4 22.8 13.1 8.1	6,500 5,100 5,200 3,800 18,300 18,200	
	1811 1812 1813 1814 1816 1817 1818 1815 1819	WP1997 WP1998 WP1999	N1 N2 N3 H1 H2 H3 N4	1158/1248 1251/1342 1346/1435 1346/1435 1437/1335 1632/1703 1622/1713	16:00N/10:18N 10:04N/04:15N 03:34N/04:47 B 03:45N/01:48 S 02:02 S/07:45 S 06:57 S/01:48 S 04:33 S/02:07N 01:34 S/04:10N	64:00 64:00 64:00 64:00 64:00 64:00 64:00	60 60 60 60 60 65 65	135 135 135 135 121 121	200 200 200 200 213 200 213	9.3 9.0 20.4 22.8 13.1 8.1 14.6	6,500 5,100 5,200 3,800 18,300 18,200 21,000	
	1811 1812 1813 1814 1816 1817 1818 1815	WP1997 WP1998 WP1999	N1 N2 N3 H1 H2 H3	1158/1248 1251/1342 1346/1435 1346/1435 1437/1532 1538/1622 1602/1703	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 5 03:45N/01:48 5 02:02 5/07:45 5 06:57 5/01:48 5 04:33 8/02:07N	64; 00 64; 00 64; 00 64; 00 64; 00 64; 00 64; 00 64; 00	60 60 60 60 65 65 65	135 135 135 135 121 121	200 200 200 200 213 200	9.3 9.0 20.4 22.8 13.1 8.1	6,500 5,100 5,200 3,800 18,300 18,200	
rs	1811 1812 1813 1814 1816 1817 1818 1813 1819 1920 1821	WP1997 WP1998 WP1999  WP2000	N1 N2 N3 H1 H2 H3 N4 H4 H4	1158/1248 1251/1342 1346/1435 1346/1435 1437/1532 1935/1622 1602/1703 1622/1713 1715/1850 1803/1857	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 8 03:45N/01:48 9 02:02 8/07:45 8 06:57 8/01:48 8 04:33 8/02:07N 01:34 8/04:10N 04:24N/09:33N 09:40N/16:00N	64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00	60 60 60 60 65 65 65 65 65	135 135 135 135 121 121 124 124 121	200 200 200 200 213 200 213 213	9.3 9.0 20.4 22.8 13.1 8.1 14.6 12.5	6,500 5,100 5,200 3,800 18,300 18,200 21,000 21,000	
	1811 1812 1813 1814 1816 1817 1818 1819 1819	WP1997 WP1998 WP1999  WP2000	N1 N2 N3 H1 H2 H3 N4 H4	1158/1248 1251/1342 1346/1435 1346/1435 1437/1532 1538/1622 1602/1703 1622/1713 1715/1850	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 8 03:45N/01:48 8 02:02 8/07:48 8 06:57 8/01:48 8 04:33 8/02:07N 01:34 8/04:10N 04:24N/09:33N	64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00	60 60 60 60 65 65 65	135 135 135 135 121 121 124 124	200 200 200 200 213 200 213 213 211	9.3 9.0 20.4 22.8 13.1 8.1 14.6 12.5	6,500 5,100 5,200 3,800 18,300 18,200 21,000	
7 <b>1</b> 7	1811 1812 1813 1814 1816 1817 1818 1819 1820 1821	WP1997 WP1998 WP1999 WP2000 WE1460	N1 N2 N3 H1 H2 H3 N4 H4 H5	1158/1248 1251/1342 1346/1435 1346/1435 1437/1532 1935/1622 1602/1703 1622/1713 1715/1830 1803/1857	16:00N/10:18N 10:04N/04:15N 03:34N/01:47 8 03:45N/01:48 8 02:02 8/07:49 8 06:57 8/01:48 8 04:33 8/02:07N 01:34 8/04:00 04:24N/09:33N 09:40N/16:00N	64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00 64:00	60 60 60 60 60 65 65 65 65 65	135 135 135 135 121 121 124 124 123	200 200 200 200 213 200 213 213 211	9.3 9.0 20.4 22.8 13.1 8.1 14.6 12.5 15.8	6,500 5,100 5,200 3,800 18,300 18,200 21,000 21,000 19,900	

Isotopes, inc.

C No.	HASP	Air Force	Filter	Time	Latitule	Longitude	Altitude	LAS	Temp.	103	Total	
	No.	140.		(5)		(•W)	(1000 ft.)	(Kt)	(, K)	SCF	Betta	5r 90
4 July	1959 M	ission 76										
715	1822		H1	1211/1244	21:05N/24:55N	66:38/65:09	63.5/65	122	208	10.0	15, 200	176
RN	1823		H2	1246/1322	25:09N/29:13N	65:55/65:19	64, 9/65, 2	119	208	19.9	17,000	213
	1824		H3	1325/1401	29:27N/33:32N	65: 17/64: 37	65. 1/65. 2	122	208	10.4	17,800	230
	1825		H4	1403/1439	33:46N/38:00N	64: 36/64: 14	65, 2/65, 6	121	208	10, 1	15, 800	223
	1828	WP2009	N1	1444/1529	38:00N/32:52N	64:00	65.5/66.6	118	219	4.9	17,000	211
	1829	WP2010	N2	1531/1617	32: 38N/27: 47N	54:00	66.6/67	115	216	4, 8	17,900	21
	1830	WP2011	N3	1619/1706	27:03N/21:42N	64:00	67/67.7	114	245	4, 8	17, 100	23
	1826		H5	1619/1706	27:03N/21:42N	64:00	67/67.7	114	215	10.8	18, 200	24
	1831	WP2012	N4	1708/1756	21:28N/16:00N	64:00	67.7/68.5	111	215	4, 5	19, 100	26
	1827		H6	1708/1756	21:26N/16:00N	64:00	67.7/68.5	111	215	10.1	21,000	27
714	1832	FD253	Hi	1144/1237	16:00N/10:20N	66:13/64:11	63/64.8	124	208	16.2	16, 200	17
RS	1833	FD254	H2	1239/1331	10:06N/04:17N	64:07/64:00	64, 8/65, 4	121	208	15.0	16, 900	23
	1834	FD255	H3	1353/1424	04:03N/01:39 S	64:00	65.4/65.7	120	208	8.7	20,000	24
	1835	FD256	H4	1426/1519	01:53 8/07:45 8	64:00	65.8/67	117	208	13.8	18, 600	21
	1838	WP2013	Ni	1522/1614	07:45 5/01:56 \$	64:00	67.5/67.5	114	213	5.3	18, 200	22
	1839	WP2014	N2	1615/1704	01:42 5/04:07N	64:00	67.5/68.6	112	213	4.7	31,000	35
	1840	WP2015	N3	1706/1754	04:21N/09:56N	64:00	68.6/69	111	213	4, 4	26, 000	26
	1836	FD257	H5	1706/1754	04: 21N/09: 56N	64:00	68.6/69	111	213	10.1	30,000	3.6
	1841	WP2016	N4	1756/1846	10:10N/16:00N	64:00	68.9/69.5	109	213	4.4	27,000	2
	1837	FD258	H6	1756/1846	10:10N/16:00N	64:00	68. 9/69. 5	109	213	10, 2	30,000	3
717 ES	1864 1865	WE1476 WE1478	N1	1200/1244 1753/1835	35:00 5/40:00 S 39:46 8/35:00 S	64:00 64:00	63, 2/64, 4 68/68, 2	121 112	216 216	5, 4 4, 0	9, 400 10, 100	1
17 Jul	1959 1	dission 77B										
705	1842	WP1993	Ni	1207/1313	19:35N/21:29N	64:00	64	128	214	2, 2	17,100	1
RN	1843	WP1994	N2	1315/1401	21:43N/27:07N	64:00	64	128	215	6, 3	17, 200	4
	. 1844	WP1995	N3	1403/1442	27:21N/31:55N	64:00	64/64.7	124	215	5,0	16,800	2
	1846	FD264	Hi	1403/1442	27:21N/31:55N	64:00	64/64.7	124	215	11.4	21,000	2
	1845	WP1996	N4	1445/1534	32:09N/38:00N	64:00	64.7/65.3	124	216	6. 1	16, 900	- 1
	1847	FD263	H2	1445/1534	32:09N/38:00N	64:00	64,7/65.3	124	216	13, 9	18,000	1
	1848	FD262	H3	1539/1614	38:00N/33:50N	64:14/64:36	60.5	135	214	13, 5	17, 900	i
	1849	FD261	H4	1617/1652	33; 36N/29; 38N	64:37/65:16	60	135	213	13, 6	18,700	1
	1850	FD260	H5	1656/1734	29:24N/24:55N	65:18/65:56	60	136		14. 9	14, 400	:
	1851	FD259	H6	1739/1809	24:33N/21:05N	66:01/66:39	60	135	209	11.8	12, 300	
715	1852	WP2005	NI	1155/1244	16:00N/10:23N	64:00	65	121		5, 8	17, 200	
R.B	1853	WP2006	N2	1246/1339	10:09N/04:11N	64:00	65	121		6, 3	13,700	,
	1854	WP2007	N3	1341/1433	03:57N/01:54 8	64:00	65	121		6. 2	16,700	
	1856	FD271	H4	1341/1433	03:57N/01:54 E		65	121		14, 1	17, 100	
	1855	WP2008	N4	1434/1519	02:08 8/07:45 5	64:00	65. 5	121		5. 3	15, 100	
	1857	FD272	H2	1434/1519	02:08 5/07:45 5	64:00	65, 5	121		12.1	18, 900	
	1858	FD273	H3	1529/1619	07:45 8/02:08 5	64:00	60	135		19.1	4, 500	
	1839	¥D274	H4	1623/1727	01:54 B/05:01N		60	135		24. 4	4,000	
	7022											
	1860 1861	FD275	H5 H6	1729/1812 1815/1911	05:15N/09:59N 10:13N/16:00N			13:		16.4 <b>21.</b> 2	4,700 8,900	

Isotopes, Inc.

	Hasp	Air Force	Filter	Time	Latitude	Longitude	Altitude	EAI	Temp.		dpm/iD	
	No.	No.		(Z)		(•w)	(1000 ft.)	(Kt)	(,K)	SCF	Beta	5r ⁹⁰
July	1959 MI	ssion 78X										
05	1866	WP2017	N1	1324/1415	20:00N/25:52N	71:00	60	134	207	8.9	10, 100	114
LP	1870	PD277	H	1324/1415	20:00N/25:52N	71:00	60	134	207	20, 1	13, 400	121
	1867	W.P2018	NZ	1417/1508	26:06N/31:58N	71:00	60	134	210	8.7	12, 100	137
	1871	F1)278	H2	1417/1508	26:06N/31:58N	71:00	60	134	240	19.7	14, 500	127
	1868 1872	WP2019	N3	1511/1601 1511/1601	32:12N/38:04N	71:00 71:00	60 60	135	213	8.4	15,400	161
	1869	FD279 WP2020	H3 N4	1605/1652	32:42N/38:04N 38:48N/44:07N	71:00	60	135	213 214	18.9	17,700	176
	1873	FD280	H4	1605/1652	38:18N/44:07N	71:00	60	135	214	7.9 17.7	12,600 15,500	147
14	1874	WP2025	N1	1156/1247	20:00N/25:52N	71:00	63.8/64.7	123	211	6.6	15, 200	151
R.P	1878	FD367	H1	1156/1247	20:00N/25:52N	71:00	63.8/64.7	123	211	15.1	15, 900	161
	1875	WP2026	NZ	1249/1343	26:06N/31:58N	71:00	65	121	213	6.6	17, 100	187
	1879	FD368	HZ	1249/1343	26:06N/31:58N	71:00	65	121	213	15,2	16, 900	224
	1876	WP202?	N3	1345/1436	32:12N/38:04N	71:00	65	121	216	6. i	18, 100	189
	1880	FD369	H3	1345/1436	32:12N/38:04N	71:00	65	124	216	14.0	17,300	203
	1877	WP2028	N4	1438/1527	38:18N/44:07N	71:00	65	121	217	5.9	19, 400	208
	1881	FD370	H4	1438/1527	38:18N/44:07N	71:00	65	121	217	13.3	18, 100	162
715	1882	WP2021	N4	1252/1343	20:00N/25:52N	71:00	65/66	115	211	5.7	15,800	174
R.P	1886	FD373	H4	1252/1343	20:00N/25:52N	71:00	65/66	115	211	13. 1	17,200	18
	1883	WP2022	NZ	1345/1436	26:06N/31:58N	71:00	66/66.4	115	215	5.5	15,800	18
	1887 1884	FD374 WP2023	H2 N3	1345/1436	26:06N/31:58N	71:00	66/66.4	115	215	12,5	16,000	19
	1888	WP2023	H3	1438/1530 1438/1530	32:12N/38:04N 32:12N/38:04N	71:00 71:00	66.4/66.7 66.4/66.7	117	218 218	5.5	15,800	22
	1885	WP2024	N4	1532/1622	38:18N/44:07N	71:00	66.7/67	115	221	12.5 5.0	18,800	20
	1889	FD376	H4	1532/1622	38:18N/44:07N	71:00	66.7/67	115	221	11.4	17, 100 18, 100	19 19
714	1890	WPL1049	Ni	1150/1246	44:00N/49:19N	71:00	45	165	222	19.0	4, 100	4
	1891	WPL1050	N2	1248/1344	49:53N/55:16N	71:00	45	165	224	18.8	7,400	
	1891 1892	WPL1050 WPL1051	N2 N3	1248/1344 1346/1442	49:53N/55:16N 55:30N/64:06N	71:00 71:00	45 45	165 165	224 228	18.8 18.5	7, 400 8, 100	6
	1891 1892 1894	WPL1050 WPL1051 FD157	N2 N3 Hi	1248/1344 1346/1442 1346/1442	49:53N/55:16N 55:30N/61:06N 55:30N/61:06N	71:00 71:00 71:00	45 45 45	165 165 165	224 228 228	18.8 18.5 41.3	7, 400 8, 100 8, 600	6 7 6
	1891 1892 1894 1893	WPL1050 WPL1051 FD157 WPL1048	N2 N3 H1 N4	1248/1344 1346/1442 1346/1442 1444/1541	49:53N/53:16N 55:30N/61:06N 55:30N/61:06N 61:20N/67:08N	71:00 71:00 71:00 71:00	45 45 45 45	165 165 165 165	224 228 228 231	18.8 18.5 41.3 18.6	7,400 B,100 B,600 7,600	6 7 6 6
	1891 1892 1894 1893 1895	WPL1050 WPL1051 FD157 WPL1048 FD158	N2 N3 Hi N4 H2	1248/1344 1346/1442 1346/1442 1444/1541 1444/1541	49:53N/53:16N 55:30N/64:06N 55:30N/64:06N 61:20N/67:08N 64:20N/67:08N	71:00 71:00 71:00 71:00 71:00	45 45 45 45 45	165 165 165 165 165	224 228 228 231 231	18.8 18.5 41.3 18.6 41.5	7,400 8,100 8,600 7,600 8,300	6 7 6 6
	1891 1892 1894 1893 1895 1896	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159	N2 N3 H1 N4 H2 H3	1248/1344 1346/1442 1346/1442 1444/1541 1444/1541 1551/1639	49:53N/55:16N 55:30N/61:06N 55:30N/61:06N 61:20N/67:08N 61:20N/67:08N 67:20N/61:57N	71:00 71:00 71:00 71:00 71:00 71:00 70:00/68:30	45 45 45 45 45 45	165 165 165 165 165 165	224 228 228 231 231 231	18.8 18.5 41.3 18.6 41.5 23.4	7,400 8,100 8,600 7,600 8,300 16,200	6 7 6 6 8 19
	1891 1892 1894 1893 1895 1896	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160	N2 N3 H1 N4 H2 H3 H4	1248/1344 1346/1442 1346/1442 1444/1541 1444/1541 1551/1639 1642/1730	49:53N/58:16N 55:30N/61:06N 55:30N/61:06N 61:20N/67:08N 61:20N/67:08N 67:20N/61:57N 61:43N/58:57N	71:00 71:00 71:00 71:00 71:00 71:00 70:00/68:30 68:30	45 45 45 45 45 45 55	165 165 165 165 165 165 155	224 228 228 231 231 229 226	18.8 18.5 41.3 18.6 41.5 23.4 23.5	7,400 8,100 8,600 7,600 8,300 16,200 18,200	6 7 6 6 8 19
	1891 1892 1894 1893 1895 1896	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159	N2 N3 H1 N4 H2 H3	1248/1344 1346/1442 1346/1442 1444/1541 1444/1541 1551/1639	49:53N/55:16N 55:30N/61:06N 55:30N/61:06N 61:20N/67:08N 61:20N/67:08N 67:20N/61:57N	71:00 71:00 71:00 71:00 71:00 71:00 70:00/68:30	45 45 45 45 45 45	165 165 165 165 165 165	224 228 228 231 231 231	18.8 18.5 41.3 18.6 41.5 23.4	7,400 8,100 8,600 7,600 8,300 16,200	6. 7 6 8 19 16
	1891 1892 1894 1893 1895 1896 1897 1898	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161	N2 N3 H1 N4 H2 H3 H4 H5	1248/1344 1346/1442 1346/1442 1444/1541 1454/1541 1551/1639 1642/1730 1732/1821	49:53N/55:16N 55:30N/61:06N 55:30N/61:06N 61:20N/67:08N 61:20N/67:08N 67:20N/61:57N 61:43N/50:37N 55:43N/50:22N	71:00 71:00 71:00 71:00 71:00 70:00/68:30 68:30/70:20	45 45 45 45 45 55 55 55	165 165 165 165 165 155 155 155	224 228 228 231 231 229 226 222 218	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8	7,400 8,100 8,600 7,600 8,300 16,200 18,200 16,600 11,200	6 7 6 8 19 16 14
PN 705	1891 1892 1894 1893 1895 1896 1897 1898	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 FD162 WPL1093	N2 N3 H1 N4 H2 H3 H4 H5	1248/1344 1346/1442 1346/1442 1346/14541 1444/1541 1551/1639 1642/1730 1732/1821 1823/1913	49:53N/55:16N 55:30N/61:06N 55:30N/61:06N 61:20N/67:08N 64:20N/67:08N 67:20N/64:57N 61:43N/55:37N 55:43N/50:22N 50:04N/45:13N	71:00 71:00 71:00 71:00 71:00 71:00 70:00/68:30 68:30 68:30/70:20 70:27/73:48	45 45 45 45 45 55 55 55 55 55	165 165 165 165 165 155 155 155	224 228 228 231 231 229 226 222 218	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8	7,400 8,100 8,600 7,600 8,300 16,200 16,000 11,200	6 7 6 8 19 16 14
PN	1891 1892 1894 1893 1895 1897 1897 1899	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 FD162	N2 N3 H1 N4 H2 H3 H4 H5 H6	1248/1344 1346/1442 1346/1442 1444/1541 1444/1541 1551/1639 1642/1730 1732/1821 1823/1913 1215/1303 1305/1354	49:53N/55:16N 55:30N/64:06N 55:30N/64:06N 64:20N/67:08N 64:20N/67:08N 67:20N/64:57N 64:43N/50:22N 50:04N/45:13N 50:06N/55:32N	71:00 71:00 71:00 71:00 71:00 71:00 70:00/68:30 68:30 68:30/70:20 70:27/73:48 71:00	45 45 45 45 45 55 55 55	165 165 165 165 165 155 155 155	224 228 228 231 231 229 226 222 218	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8	7,400 8,100 8,600 7,600 8,300 16,200 16,000 11,200 16,200	6 7 6 8 19 16 14 11
PN 705	1891 1892 1893 1895 1896 1897 1898 1899 1901 1902 1904	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 FD162 WPL1093 WPL1094 FD151 WPL1095	N2 N3 H1 N4 H2 H3 H4 H5 H6 N2 N3 H1	1248/1344 1346/1442 1346/1442 1444/1541 1551/1639 1642/1730 1732/1821 1823/1913 1215/1303 1305/1354 1305/1354	49:53N/55:16N 55:30N/64:06N 55:30N/64:06N 64:20N/67:08N 64:20N/67:08N 67:20N/64:57N 64:43N/50:23N 50:04N/50:23N 50:06N/64:56N 56:06N/64:56N 66:10N/68:06N	71:00 71:00 71:00 71:00 71:00 70:00/68:30 68:30/70:20 70:27/73:48 71:00 71:00 71:00	45 45 45 45 45 55 55 55 55 62, 8/63, 3 63, 1/63, 1 63, 1/63, 7	165 165 165 165 165 155 155 155 125 125 125 125	224 228 228 231 231 229 226 222 218 226 228	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8	7,400 8,400 8,600 7,600 8,300 16,200 16,600 11,200 16,200 17,000 18,600 14,700	6 7 6 8 19 16 14 11 18
PN 705	1891 1892 1893 1895 1896 1897 1898 1899 1901 1902 1903 1903	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 WPL1093 WPL1093 WPL1094 FD151 WPL1095 FD152	N2 N3 H1 N4 H2 H3 H4 H5 H6 N2 N3 H1 N4	1248/1344 1346/1442 1346/1442 1444/1541 1444/1541 1551/1639 1642/1730 1732/1821 1823/1913 1215/1303 1305/1354 1305/1354 1357/1447	49:53N/55:16N 55:30N/64:06N 55:30N/64:06N 64:20N/67:08N 64:20N/64:57N 64:43N/55:37N 55:43N/50:22N 50:04N/45:53N 50:06N/55:52N 56:06N/64:56N 62:10N/68:00N 62:10N/68:00N	74:00 74:00 74:00 74:00 74:00 70:00/68:30 68:30/70:20 70:27/73:48 74:00 74:00 74:00 74:00	45 45 45 45 45 55 55 55 55 55 55 55 55 5	165 165 165 165 165 155 155 155 125 125 125 126 126	224 228 228 231 231 229 226 222 218 226 228 230 230	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8 6.0 6.1	7,400 8,400 8,600 7,600 8,300 16,200 16,600 11,200 16,200 17,000 18,600 14,700	6 7 6 8 19 16 14 11 18 19 20
PN 705	1891 1892 1893 1895 1895 1897 1898 1899 1901 1902 1904 1903 1905	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 FD162 WPL1093 WPL1094 FD151 WPL1095 FD152 FD153	N2 N3 H1 N4 H2 H3 H4 H5 H6 N2 N3 H1 N4	1248/1344 1346/1442 1346/1442 1444/1541 1451/1639 1642/1730 1732/1821 1823/1913 1215/1303 1305/1354 1305/1354 1357/1447 1453/1542	49:53N/55:16N 55:30N/61:06N 65:30N/67:08N 61:20N/67:08N 67:20N/61:57N 61:43N/55:37N 55:43N/50:22N 50:01N/45:13N 50:06N/61:56N 62:10N/68:00N 62:10N/68:00N 62:10N/68:00N 67:39N/62:06N	71:00 71:00 71:00 71:00 71:00 70:00/68:30 68:30 60:30/70:20 70:27/73:48 71:00 71:00 71:00 71:00 71:00 70:15/68:30	45 45 45 45 45 55 55 55 55 62,8/63,3 63,1/63,1 63,1/63,7 63,1/63,7	165 165 165 165 165 155 155 155 125 125 125 126 126 126 126	224 228 228 231 229 226 222 218 228 228 230 230	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8 6.0 6.1 14.0 6.3 14.4	7,400 8,100 8,600 7,600 8,300 16,200 18,200 11,200 17,000 14,700 16,700 16,700	6 7 6 8 19 16 14 11 18 19 20 13
PN 705	1891 1892 1893 1895 1895 1897 1898 1899 1901 1902 1903 1905 1907	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 FD162 WPL1093 WPL1094 FD151 WPL1095 FD152 FD153 FD154	N2 N3 H1 N4 H2 H3 H4 H5 H6 N2 N3 H1 N4 H2 H3	1248/1344 1346/1442 1346/1442 1444/1541 1551/1659 1642/1730 1732/1821 1823/1913 1215/1303 1305/1354 1305/1354 1305/1354 1357/1447 1453/1542	49:53N/55:16N 55:30N/64:06N 55:30N/64:06N 64:20N/67:08N 64:20N/64:537N 64:43N/50:37N 55:43N/50:23N 50:06N/55:52N 56:06N/64:56N 56:06N/64:56N 62:10N/68:00N 67:39N/62:04N 67:39N/62:04N	74:00 74:00 74:00 74:00 74:00 74:00 70:00/68:30 68:30/70:20 70:27/73:48 74:00 74:00 74:00 74:00 74:00 74:00 76:30/68:30	45 45 45 45 45 55 55 55 55 55 62, 8/63, 1 63, 1/63, 1 63, 1/63, 7 63, 1/63, 7 63, 1/63, 7 63, 1/63, 7	165 165 165 165 155 155 155 125 125 125 125 125 125 12	224 228 228 231 231 229 226 222 218 226 228 230 230 230 227	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8 6.0 6.1 14.0 6.3 14.4 17.0	7,400 8,400 8,600 7,600 8,300 16,200 16,600 11,200 16,200 17,000 18,600 14,700 16,700 17,000	6 7 6 8 19 16 14 11 18 19 20 13 21 21 21
PN 705	1891 1892 1893 1895 1895 1897 1898 1897 1902 1902 1903 1905 1906 1907	WPL1050 WPL1051 FD157 WPL1048 FD159 FD160 FD161 WPL1093 WPL1094 FD151 WPL1095 FD152 FD153 FD153 FD155	N2 N3 H1 N4 H2 H3 H4 H5 H6 N2 N3 H1 H2 H3 H3	1248/1344 1346/1442 1346/1442 1444/1541 1451/1639 1642/1730 1732/1821 1823/1913 1215/1303 1305/1354 1307/1347 1453/1542 1655/1644 1653/17426	49:53N/55:16N 55:30N/64:06N 55:30N/64:06N 64:20N/67:08N 64:20N/67:08N 64:43N/55:37N 55:43N/50:22N 50:04N/45:53N 50:06N/55:32N 56:06N/64:56N 66:10N/68:00N 67:39N/62:04N 61:50N/66:00N 67:39N/66:00N 67:50N/66:00N	71:00 71:00 71:00 71:00 71:00 71:00 70:00/68:30 68:30/70:20 70:27/73:48 71:00 71:00 71:00 71:00 71:00 71:00 68:30/70:17	45 45 45 45 45 55 55 55 55 55 62, 8/63, 3 63, 1/63, 7 63, 1/63, 7 63, 1/63, 7 60 60	165 165 165 165 155 155 155 125 125 125 126 126 126 135	224 228 231 231 229 226 222 218 226 228 230 230 229 227 224	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8 6.0 6.1 14.0 17.0 17.0	7, 400 8, 100 8, 600 7, 600 8, 300 16, 200 16, 200 11, 200 14, 200 14, 700 14, 700 16, 700	6 7 6 8 19 16 14 11 18 19 20 13 21 21 21
705 PN	1891 1892 1893 1893 1895 1897 1899 1901 1902 1904 1903 1905 1906 1908	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 FD162 WPL1093 WPL1094 FD151 WPL1095 FD152 FD153 FD154 FD155 FD155	N2 N3 H1 N4 H2 H3 H4 H5 H6 N2 N3 H1 N4 H2 H3 H3	1248/1344 1346/1442 1346/1442 1444/1541 1414/1541 1551/1659 1642/1730 1732/1821 1823/1913 1215/1303 1305/1354 1305/1354 1305/1354 1357/1447 1453/1542 1545/1634 1637/1726	49:53N/55:16N 55:30N/64:06N 65:30N/67:08N 64:20N/67:08N 64:20N/67:08N 67:20N/64:57N 64:43N/50:37N 55:43N/50:22N 50:06N/55:52N 56:06N/64:36N 56:06N/64:56N 62:10N/68:00N 62:10N/68:00N 62:10N/68:00N 55:46N/50:34N 50:18N/46:7N	74:00 74:00 74:00 74:00 74:00 74:00 70:00/68:30 68:30/70:20 70:27/73:48 74:00 74:00 74:00 74:00 74:00 74:00 76:30/68:30	45 45 45 45 55 55 55 55 55 55 62, 8/63, 3 63, 1/63, 1 63, 1/63, 7 60 60 60	165 165 165 165 155 155 155 125 125 125 125 125 125 12	224 228 228 231 231 229 226 222 218 226 228 230 230 230 227	18.8 18.5 41.3 18.6 41.5 23.4 23.5 24.6 25.8 6.0 6.1 14.0 6.3 14.4 17.0	7,400 8,400 8,600 7,600 8,300 16,200 16,600 11,200 16,200 17,000 18,600 14,700 16,700 17,000	6 7 6 6 8 9 16 14 11 18 19 20 13 21 21 21
705 PN 717	1891 1892 1893 1893 1895 1897 1898 1899 1901 1902 1904 1903 1905 1906 1907	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 WPL1093 WPL1094 FD151 WPL1095 FD152 FD153 FD154 FD155 FD156	N2 N3 H4 H2 H4 H5 H6 N2 N3 H1 N4 H2 H3 H3 H4	1248/1344 1346/1442 1346/1442 1444/1541 1454/1541 1454/1541 1552/1303 1302/1303 1305/1354 1305/1354 1305/1354 1357/1447 1453/1542 1655/1654 1657/1726 1729/1817	49:53N/55:16N 55:30N/61:06N 55:30N/61:06N 61:20N/67:08N 61:20N/67:08N 61:43N/55:37N 55:43N/50:22N 50:04N/45:13N 50:06N/55:32N 50:06N/64:56N 56:06N/64:56N 62:10N/68:00N 67:39N/62:04N 61:50N/66:00N 55:46N/50:34N 50:18N/46:7N	71:00 71:00 71:00 71:00 71:00 71:00 70:00/68:30 68:30/70:20 70:27/73:48 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00 71:00	45 45 45 45 45 55 55 55 55 55 62, 8/63, 3 63, 1/63, 7 63, 1/63, 7 60 60 60	165 165 165 165 165 155 155 125 125 125 125 125 125 126 126 133 135 135	224 228 228 231 231 226 222 218 226 228 228 230 227 227 227 224 221	18.8 18.3 18.6 41.3 23.5 24.6 6.1 14.0 6.3 14.0 17.0 17.7 17.6	7,400 8,100 8,600 7,600 8,300 16,200 16,200 11,200 14,200 14,700 14,700 14,700 14,700 16,700 16,700 16,700	6 7 6 6 8 19 16 14 11 18 19 20 13 21 21 21 21
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705 PN 717 EN	1891 1892 1894 1893 1895 1896 1897 1902 1902 1903 1903 1905 1907 1907 1908 1907 1931 1932 1933	WPL1050 WPL1051 FD157 WPL1048 FD158 FD159 FD160 FD161 FD162 WPL1093 WPL1094 FD151 WPL1095 FD152 FD153 FD154 FD155 WE1486 WE1487	N2 N3 N4 H4 H5 H6 N2 N3 H1 N4 H2 H4 M5 H6 N1 N4 M6 N1 N1 N1	1246/1344 1346/1442 1346/1442 1444/1341 1451/1659 1632/1730 1215/1303 1305/1394 1305/1394 1305/1394 1307/1447 1357/1447 1357/1447 1357/1447 1357/1447 1357/1452 1545/1634 1637/1726 1141/1235 1236/1330 1311/1426 1429/1458/1516	49:53N/55:16N 55:30N/64:06N 55:30N/64:06N 64:20N/67:08N 64:20N/67:08N 67:20N/64:57N 64:43N/50:23N 50:04N/55:37N 50:04N/55:32N 50:06N/55:52N 50:06N/64:56N 56:06N/64:56N 62:10N/68:00N 62:10N/68:00N 62:10N/68:00N 62:10N/68:00N 53:46N/50:34N 64:50N/56:00N 53:46N/50:34N 50:15N/44:37N 50:15N/44:37N 50:15N/44:37N 50:14SN/64:32 \$ 46:48 \$/16:32 \$ 46:48 \$/16:32 \$ 46:48 \$/16:32 \$ 46:48 \$/16:32 \$ 46:48 \$/16:32 \$ 46:48 \$/16:32 \$ 46:48 \$/16:32 \$ 46:48 \$/16:32 \$ 46:48 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Table 4, 2 (continued)

AC No:	Hasp	Air Force	Filter	Time	Latitude	Longitude	Altitude	LAS	Temp.	103	Total	D.F
	No.	No.		(Z)		(•M)	(1000 ft.)	(Kt)	(.K)	SCF	- Beta	8r ⁹⁰
3 July	1959 M	ission 79A										
717	1938	WE1508	N1	1339/1435	35:00 8/40:00 8	64:00	40	170	213	23. 7	<b>≤ 44</b> 0	4
es	1939	WE 1510	N3	1520/1610	39:485/35:008	64:00	40	170	213	21.2	≤ 320	3
716	1940	WE1488	N1	1300/1358	35:00 8/40:00 8	64:00	50	160	213	16, 9	3, 100	52
es	1941	WE1490	N3	1801/1852	39:485/35:008	64:00	50	160	213	14. 9	2, 500	36
4 July	1959 M	ission 79B										
705	1920	WPL1144	N4	1222/1317	44:00N/49:44N	71:00	50	161	214	16. 1	6,800	58
PN	1921	WPL1145	SN	1317/1409	50: 10N/55: 55N	71:00	50	160	218	14. 7	7, 300	7
	1922	WPL1116	N3	1416/1506	56:08N/61:58N	71:00	50	160	223	14.0	9, 700	10
	1924	FD055	H1 N4	1416/1506 1508/1602	56:08N/61:58N	71:00	50	160	223	30.9	13, 700	. 9
	1923	WPL1147 FD056	H2	1508/1602	62:11N/68:00N 62:11N/68:00N	71:00 71:00	50 50	162	229 229	14. 8 32. 5	12, 400	12
	1926	FD057	H3	1610/1700	67:45N/62:08N	70:13/68:30	55	157	229	24.7	15, 300 16, 700	13
	1927	FD058	H4	1708/1750	61:54N/56:13N	68:30	55	156	225	21.1	17, 600	17
	1928	FD059	H5	1752/1841	55:59N/50:29N	68:30/70:46	55	156	223	24. 8	14, 300	15
	1929	FD060	H6	1843/1926	50:15N/45:13N	70:22/73:47	55	157	217	22.6	14, 500	15
715	1910	WPL1060	N1	1156/1247	44:00N/49:52N	71:00	60	135	220	8. 4	15, 700	17
PN	1911	WPL1061	N2	1248/1341	49:59N/55:54N	71:00	60	135	223	8. 6	16, 400	47
	1912	WPL1062	N3	1342/1430	56:05N/61:34N	71:00	60	135	226	7.6	15, 900	49
	1914	FD133	H	1342/1430	56:05N/61:34N	71:00	60	135	226	17. 1	16, 700	2
	1913	WPL1063	N4	1433/1523	61:48N/67:46N	71:00	60	135	230	7.7	17, 100	20
	1915	FD134	112	1433/1523	61:48N/67:46N	71:00	60	135	230	17.4	17, 200	20
	1916	FD135	H3	1533/1624	67:26N/61:50N	70:05/6B:30	65	121	230	13, 0	13, 300	22
	1917	FD136	H4	1625/1709	61:33N/56:06N	68:30	65	121	228	11. 1	14, 300	21
	1918	FD137	H5	1713/1758	55:52N/50:32N	68:30/70:18	65	121	225	11.6	16,000	21
	1919	FD138	H6	1801/1848	50:18N/45:28N	70:22/73:50	65	121	223	12. 4	17, 400	23
26 July	1959 M	tission 79X										
705	1942	WPL1068	N1	1202/1252	44:00N/38:16N	71:00	58.2/60	134	215	8.4	11, 600	10
PR	1946	FD289	H1	1202/1252	44:00N/38:16N	71:00	58,2/60	134	215	19.0	12,000	4.3
	1943	WPL1069	N2	1254/1343	38:02N/32:40N	71:00	60	136	215	8. 3	12, 300	41
	1944	WPL1070	N3	1345/1435	31:56N/26:05N	71:00	60	135	215	8. 4	10,000	12
	1945	WPL1071	N4	1437/1527	25:51N/20:00N	71:00	60	136	215	8.5	12,000	12
714	1947	WPL4008	N4	1141/1242	44:00N/38:09N	74:00	61.5/64.1	125	209	8.4	15, 400	2:
PR	1951	FD175	H4	1141/1242	44:00N/38:09N	71:00	61,5/64,1	125	209	19.4	14, 200	41
	1948	WPL1009	N2	1243/1325	37:55N/32:04N	71:00	64/64.9	122	209	5, 5	16, 800	21
	1952	FD176	H2	1243/1325	37:55N/32:04N	71:00	64/64.9		209	12.4	17, 200	1
	1949	WPL1010	N3	1326/1417	31:50N/26:05N	71:00	65	121	209	6. 3	16, 100	11
	1953	FD177	H3	1326/1417	31:50N/26:05N	71:00	65	121	209	14.5	15, 900	4
	1950 1954	WPL1011 FD178	N4 H4	1427/1511 1427/1511	25:51N/20:00N 25:51N/20:00N	71:00 71:00	65 65	121	209 209	5. 5 12. 6	15, 600 15, 800	1
745	1955	WPL1064	N1	1233/1320	44:00N/38:21N	71:00	61/64.8	121	220	5, 9	16, 400	1
PR	1959	FD493	Hi	1233/1320	44:00N/38:21N	71:00	61/64.8		220	13.7	13, 400	2
	1956	WPL1065	N2	1323/1415	38:07N/32:07N	71:00	64. 9/65. 5		216	6. 1	17, 800	1
	1960	FD494	H2	1323/1415	38:07N/32:07N	71:00	64, 9/65, 5		216	13.9	16, 400	2
	1957	WPL1066	N3	1419/1507	31:53N/26:07N	71:00	65.7/66.3		216	5. 3	17, 500	2
	1961	FD495	нз	1419/1507	31:53N/26:07N	71:00	65,7/66,3		216	12. 1	13, 900	2
	1958	WPL1067	N4	1509/1605	25:53N/20:00N	71:00	66.3/67	118	215	6. 2	16, 600	2
			114									

Table 4.2 (continued)

AC No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	Total	8r ⁹⁰
	No.	No.		<u>(2)</u>		(•W)	(1000 ft.)	(K\$)	(*K)	SCF	Bota	Sr
8 July	1959 M	lesion 80										
714	1963	WP1793	N4	1200/1300	18:31N/17:56N	67:05	50	160	207	18.1	960	9
RO	1964	WP1794	N2	1339/1407	18:40N/18:10N	67:18/67:05	52	156	205	7, 8	1,400	17
	1967	FD439	Hi	1302/1407	48:40N/18:40N	67:05	52	156	205	39. 9	2, 100	24
	1965	WP1795	N3	1410/1520	18:24N/18:59N	67:05	54	152	202	18.0	3, 300	33
	1968	FD440	HZ	1410/1523	18:24N/18:59N	67:05	54	152	202	41.5	3, 400	33
	1966	WP1796	N4	1523/1636	19:13N/20:17N	67:05/67:11	56	147	202	17.0	5, 900	48
	1969	FD441	H3	1524/1636	19:20N/20:17N	67:03/67:11	56	147	202	36. 9	6,000	40
	1970	FD442	H4	1639/1728	20:10N/18:52N	67:18/67:05	58	141	205	22, 2	6, 200	56
	1971	FD443	H5	1742/1825	19:13N/17:55N	67:05	60	135	207.	17. 1	8,500	96
	1972	FD444	H6	1827/1932	18:09N/18:10N	67:05	62	130	208	23. 0	8,700	133
715 RO	1973	WP2205	N1	1202/1322	18:31N/20:17N	67:05/67:08	64	124	210	10.7	12, 500	138
	1977	FD469	H1	1202/1322	18: 31N/20: 17N	67:05/67:08	64	124	210	24.6	13, 900	147 172
	1974	WP2206	N2	1334/1509	19:08N/17:32N	67:18/67:05	65.6/66.2	118	210	11.0	15,000	203
	1978 1975	FD470 WP2207	H2 N3	1334/1509 1542/1723	19:08N/17:32N 19:28N/18:10N	67:18/67:05 67:18/67:05	65.6/66.2 67.3/67.3	118	210 211	24. 9 10. 5	14, 400 15, 900	177
	1979	FD471	H3	1542/1723	19:28N/18:10N	67:18/67:05	67.3/67.3	114	211	24.1	20, 000	224
	1979	WP2208	N4	1731/1946	18:59N/19:33N	67:05	68.6/71	109	211	11.9	17, 500	215
	1980	FD472	H4	1731/1946	18:59N/19:33N	67:05	68.6/71	109	211	27.2	21,000	250
								-			•	
718 EO	1981	WE1516	Ni	1153/1315	35:00 8	62:00	48	160	215	25. 2	840	12
	1982	WE1517	NZ	1320/1452	35:00 B	62:00	53	155	213	23.6	2, 600	50
	1983	WE1518	N3	1455/1640	35:00 8	62:00	58	140	212	20.0	4,500	65
	1984	WE1519	N4	1645/1920	35:00 <b>S</b>	62:00	62	130	211	23. 9	5, 800	82
717	1985	WE1512	N1	1125/1220	35:00 8	62:00	43	170	217	21. 1	≤ 440	4
EO	1986	WX:1513	N2	1236/1406	35;00 S	62;00	63.8/65.4	120	210	11.0	7,500	117
	1987	WE1514	N3	1411/1606	35:00 B	62:00	67/68.8	110	209	11.1	8, 600	112
	1988	WE1515	N4	1610/1830	35:00 S	62:00	69.6/70	108	209	12. 6	10, 500	132
30 July	1959 N	Ais noissil										
718	1989	WE1529	NZ	1225/1311	35:00 8/40:00 B	64:00	60	135	210	8.0	4, 500	69
ES 716	1990	WE1531	N4	1819/1900	39:46 8/35:00 8	64:00	60	135	210	7. 1	5, 200	69
	1991	WE1520	N1	1159/1244	35:00 8/40:00 8	64:00	64. 5	121	210	5,7	7, 200	96
E5	1992	WE1522	N3	1753/1831	39:468/35:008	64:00	69.5/70.7	112	210	3. 5	12, 700	152
31 July	1959_3	dission 81B										
714	1993	WP1689	Ni	1226/1240	16:00N/21:14N	64:00	60	134	208	4.1	3, 700	47
RN	1994	FD385	H4	1314/1359	21: 28N/26: 42N	64:00	59. 7	133	208	18.0	9, 200	109
	1995	FD387	H3	1402/1448	26:56N/32:10N	64:00	60	134	215	17. 3	8,700	100
	1996	FD368	114	1451/1538	32: 24N/38:00N	64:00	60	135	214	17.9	12, 700	139
	1997	FD389	H5	1544/1618	38: 00N/33: 54N	64:14/64:35	65	121	210	9.7	17, 400	178
	1998	FD390	Н6	1621/1808	33: 40N/21:05N	64: 36/66: 38	65	119	212	29. 3	16, 500	173
715	1999	WP1685	N1	1157/1246	16:00N/10:20N	64:00	60	135	211	8.4	6, 600	74
RS	2000	WP1686	N2	1252/1335	10:06N/04:26N	64:00	59/60	135	210	7.5	5, 700	55
	2001	FD379	H4	1346/1431	04: 05N/01: 35 S		60.2/60.2		212	17.2	5, 500	59
	2002	FD380	H2	1432/1524	01:498/07:458		60.1/60.8		212	19.9	6, 000	54
	2003	FD381	H3	1528/1614	07: 45 8/02: 07 5		64.8/65.4			13.7	17,700	179
	2004	FD382	H4	1617/1707	01:53 5/04:06N		65	121		14.6	16, 500	19
	2005	FD383	H5	1708/1800	04: 20N/10: 19N			121		15.8	14, 500	15
	2006	FD384	Н6	1803/1853	10:33N/16:00N	64:16/66:14	65	121	200	15.2	11,600	16

Table 4.2 (continued)

C No.	HASP No.	Air Force No.	Pilter.	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	ras (Kt)	Temp, (*K)	10 ³	Total Bets	81.
Augu	et 1959	Mission 82									······································	
105	2011	FD409	H1	1210/1245	21:05N/25:06N	66:38/65:55	62,7/63.5	125	209	11, 1	14, 800	4"
SN.	2012	FD410	H2	1247/1323	25:19N/29:29N	65:53/65:16	63.5/63.7	124	211	11.1	16, 400	2
.,	2013	FD411	H3	1325/1359	29:43N/33:46N	65:13/64:36	63, 9/64, 4	124	214	10, 1	16, 100	2
	2014	FD412	H4	1402/1437	34:00N/38:00N	64:35/64:14	64.6/64.4	122	215	10.0	16, 300	2
	2007	WP1521	Ni	1440/1525	38:00N/32:41N	64:00	64.3/65.7	120	218	5. 3	16, 700	4
	2008	WP1522	N2	1527/1614	32:27N/27:01N	64:00	65.7/66.4	118	219	5, 1	18, 300	1
	2009	WP1523	N3	1616/1707	26:47N/21:00N	64:00	66.4/67.3	115	216	5, 3	14, 500	4
	2015	FD413	H5	1616/1707	26:47N/21:00N	64:00	66.4/67.3	115	216	12.0	15, 500	4
	2010	WP1524	N4	1708/1749	20:46N/16:00N	64:00	66.9/67.9	112	213	4.0	18, 300	
	2016	FD414	H6	1708/1749	20:46N/16:00N	64:00	66.9/67.9	112	213	9.2	14, 800	2
14	2021	FD397	Hi	1140/1734	16:00N/10:17N	66:13/64:10	63.4/65.4	121	209	15.5	13, 800	
8	2022	FD398	H2	1236/1323	10:03N/04;23N	64:05/64:00	65.4/65.8	119	210	12.8	15, 800	
	2023	FD399	H3	1325/1417	04:09N/01:37 8	64:00	66/66.6	116	211	13, 1	21,000	
	2024	FD400	H4	1419/1507	01:51 8/07:45 8	64:00	66.6/67.4	114	212	11.5	24, 000	
	2017	WP1525	N1	1512/1602	07:45 8/01:59 8	64:00	67.6/67.8	110	213	4.7	23, 000	
	2018	WP1526	N2	1604/1656	01:45 8/04:15N	64:00 64:00	67.9/68.7	113	213 214	5.1	22,000	
	2019 2025	WP1527	N3	1657/1746	04:29N/10:00N 04:29N/10:00N	64:00	68.7/69.6 68.7/69.6	111	214	4.5 10.3	27,000	
	2020	FD401 WP1528	H5 N4	1657/1746 1748/1838	10:14N/16:00N	64:00	69.5/69.8	104	215	4.0	25, 000 22, 000	
	2026	FD402	H6	1748/1838	10:14N/16:00N	64:00	69.5/69.8	104	215	9.2	22,000	
18	2047	WE1539	Ni	1240/1328	35:00 8/40:00 B	64:00	40	170	213	20.7	1, 450	
S	2048	WE1537	N3	1525/1618	39:48 8/35:00 8	64:00	40	170	213	22.4	1, 080	
16	2049	WE1532	N1	1200/1245	35:00 8/40:00 8	64:00	50	160	213	13.1	1,540	
:8	2050	W£1534	N3	1701/1747	39:48 8/35:00 8	64:00	50	160	213	13.3	1, 990	
6 Aug	ust 1959	Mission 83	<u>.</u>									
117	2051	WE1540	N1	1223/1304	35:00 8/40:00 S	64:00	60	135	214	6.9	5, 500	
8	2052	WE1542	N3	1747/1829	39:46 8/35:00 B	64:90	60.5	135	214	7.0	5, 400	
18	2053	WE1544	N1	1159/1244	35:00 8/40:00 8	64:00	64.7/65.8	120	215	5.4	7, 990	
8	2054	WE1546	N3	1754/1900	39:46 8/35:00 8	6 <b>4</b> :00	69.3/71	110	215	5.7	17, 300	
Aug	ust 1959	Mission 831	<u>B</u> _									
705	2027	WP1533	N1	1226/1312	16:00N/21:1BN	64:00	64.5/65	121	212	5.7	13,700	
RN	2028	WP1534	N2	1314/1400	24: 32N/26: 50N	64:00	65	121	213	5, 6	14, 500	
	2029	WP1535	N3	1402/1447	27:04N/32:14N	64:00	65	121		5.5	13, 900	
	2031	FD415	H4	1402/1447	27:04N/32:14N	64:00	65	121	214	12, 5	16,800	
	2030	WP1536	N4	1449/1536	32:28N/38:00N	64:00	65	121	215	5,7	14, 700	
	2032	FD416	H2	1449/1536	32: 28N/38:00N	64:00	65	121	215	13.0	15,600	
				1541/1618	38: 00N/33: 47N	64: 14/64: 36	60	135		14. 3	14, 100	
	2033	FD417	H3								10, 900	
	2033 2034	FD418	H4	1620/1658	33: 33N/29: 23N	64: 37/65:18	60	135		14. 6		
	2033 2034 2035	FD418 FD419	H4 H5	1620/1658 1701/1735	33: 33N/29: 23N 29: 09N/25: 16N	64: 37/65: 18 65: 21/65: 53	60	135	211	13, 2	11,000	
	2033 2034	FD418	H4	1620/1658	33: 33N/29: 23N	64: 37/65: 18 65: 21/65: 53			211			
	2033 2034 2035 2036	FD418 FD419 FD420 WP2253	H4 H5 H6	1620/1658 1701/1735 1738/1813 1153/1244	33: 33N/29: 23N 29: 09N/25: 16N 25: 02N/21: 05N 16: 00N/10: 16N	64: 37/65: 18 65: 21/65: 53 65: 54/66: 38 64:00	60 60 65	135 138 121	211 210 212	13. 2 14. 0 6. 3	11,000 8,900 11,800	
	2033 2034 2035 2036 2037 2038	FD418 FD419 FD420 WP2253 WP2254	H4 H5 H6 N1 N2	1620/1658 1701/1735 1738/1813 1153/1244 1245/1335	33: 33n/29: 23n 29: 09n/25: 16n 25: 02n/21: 05n 16: 00n/10: 16n 10: 02n/04: 18n	64: 37/65: 18 65: 21/65: 53 65: 54/66: 38 64:00 64:00	60 60 65 65	135 138 121 121	211 210 212 212	13. 2 14. 0 5. 3 6. 1	11,000 8,900 11,800 14,800	
	2033 2034 2035 2036 2037 2038 2039	FD418 FD419 FD420 WP2253 WP2254 WP2255	H4 H5 H6 N1 N2 N3	1620/1658 1701/1735 1738/1813 1153/1244 1245/1335 1337/1427	33: 33n/29: 23n 29: 09n/25: 16n 25: 02n/21: 05n 16: 00n/10: 16n 10: 02n/04: 18n 04: 04n/01: 40 8	64: 37/65: 18 65: 21/65: 53 65: 54/66: 38 64:00 64:00 64:00	60 60 65 65 65	135 138 121 121 121	211 210 212 212 212 212	13, 2 14, 0 6, 3 6, 1 6, 1	11,000 8,900 11,800 14,800 15,700	
	2033 2034 2035 2036 2037 2038 2039 2041	FD418 FD419 FD420 WP2253 WP2254 WP2255 FD427	H4 H5 H6 N1 N2 N3 H1	1620/1658 1701/1735 1738/1813 1153/1244 1245/1335 1337/1427	33: 33N/29: 23N 29: 09N/25: 16N 25: 02N/21: 05N 16: 00N/10: 16N 10: 02N/04: 18N 04: 04N/04: 40 8 04: 04N/04: 40 8	64: 37/65: 18 65: 21/65: 53 65: 54/66: 38 64: 00 64: 00 64: 00 64: 00	60 60 65 65 65 65	135 138 121 121 121 121	211 210 212 212 212 212	13. 2 14. 0 6. 3 6. 1 5. 1 14. 0	11,000 8,900 11,800 14,800 15,700	
	2033 2034 2035 2036 2037 2038 2039 2041 2040	FD418 FD419 FD420 WP2253 WP2254 WP2255 FD427 WP2256	H4 H5 H6 N1 N2 N3 H1 N4	1620/1658 1701/1735 1738/1813 1153/1244 1245/1335 1337/1427 1337/1427 1429/1520	33:33N/29:23N 29:09N/25:16N 25:02N/21:05N 16:00N/10:16N 10:02N/04:18N 04:04N/01:40 8 04:04N/01:40 8 04:348/07:43 8	54: 37/65: 18 55: 24/65: 53 65: 54/66: 38 64: 00 64: 00 64: 00 64: 00 64: 00	60 60 63 65 65 65 65	135 138 121 121 121 121	211 210 212 212 212 212 212 212	13. 2 14. 0 5. 3 6. 1 5. 1 14. 0 6. 3	11,000 8,900 11,800 14,800 15,700 15,700	
	2033 2034 2035 2036 2037 2038 2039 2041 2040 2042	FD418 FD419 FD420 WP2253 WP2254 WP2255 FD427 WP2256 FD428	H4 H5 H6 N1 N2 N3 H1 N4 H2	1620/1658 1704/1735 1738/1813 1153/1244 1245/1335 1337/1427 1337/1427 1429/1520	33: 33N/29: 23N 29: 09N/25: 16N 25: 02N/26: 16N 16: 00N/10: 16N 10: 02N/04: 16N 04: 04N/04: 40 04: 04N/04: 40 04: 548/07: 43 04: 548/07: 43	54: 37/65: 18 55: 21/65: 53 55: 54/66: 38 64: 00 64: 00 64: 00 64: 00 64: 00 64: 00	60 60 65 65 65 65	135 138 121 121 121 121	211 210 212 212 212 212 212 212 212	13.2 14.0 5.3 6.1 6.1 14.0 6.3 14.3	11,000 8,900 11,800 14,800 15,700 15,700 14,900 15,500	
	2033 2034 2035 2036 2037 2038 2039 2041 2040 2042 2043	FD418 FD419 FD420 WP2253 WP2254 WP2255 FD427 WP2256 FD428 FD429	H4 H5 H6 N1 N2 N3 H1 N4	1620/1658 1704/1738 1738/1813 1153/1244 1245/1337 1337/1427 1429/1520 1429/1520 1524/1628	33:33N/29:23N 29:09N/25:16N 25:02N/21:05N 16:00N/10:16N 10:02N/04:18N 04:04N/01:40 8 04:04N/01:40 8 04:348/07:43 8	54: 37/65: 18 55: 24/65: 53 55: 54/66: 38 64: 00 64: 00 64: 00 64: 00 64: 00 64: 00 64: 00	60 60 63 63 65 65 65	135 138 121 121 121 121 121	211 210 212 212 212 212 212 212 212 212	13.2 14.0 5.3 5.1 6.1 14.0 6.3 14.3 23.9	14,000 8,900 11,800 14,800 15,700 15,700 14,900 15,500 2,900	
715 R\$	2033 2034 2035 2036 2037 2038 2039 2041 2040 2042	FD418 FD419 FD420 WP2253 WP2254 WP2255 FD427 WP2256 FD428 FD429	H4 H5 H6 N1 N2 N3 H1 N4 H2 H3	1620/1658 1704/1735 1738/1813 1153/1244 1245/1335 1337/1427 1337/1427 1429/1520	33; 33N/29; 23N 29; 09N/25; 16N 25; 02N/21; 05N 16; 00N/40; 16N 10; 02N/04; 18N 04; 04N/01; 40 S 04; 94N/01; 40 S 04; 948/07; 43 S 01; 548/07; 43 S 07; 45 5/01; 45 S	54: 37/65: 18 55: 21/65: 53 65: 54/66: 38 64: 00 64: 00 64: 00 64: 00 64: 00 64: 00 64: 00 64: 00	60 60 63 65 65 65 65 65	135 138 121 121 121 121 121 121	211 210 212 212 212 212 212 212 212 208 208	13.2 14.0 5.3 6.1 6.1 14.0 6.3 14.3	11,000 8,900 11,800 14,800 15,700 15,700 14,900 15,500	

Table 4, 2 (continued)

											<u>dym/1</u> 0	000 SCF
AC No.	HASP No.	Air Force No,	Filtor	Time (Z)	Latitude	Longitude ("W)	Altitude (1000 ft.)	I AS (Kt)	Temp.	10 ³ SCF	Total Beta	Sr90
8 Augus	t 1951 N	Lission 84										
716 XR	2055 2056 2057 2058	WE1548 WE1549 WE1550 WE1551	N1 N2 N3 N4	1133/1208 1210/1249 1253/1328 1330/1406	33:21 8/28:17 S 28:04 8/24:06 S 23:51 8/19:43 S 19:39 8/15:37 S	59:05/59:59 60:03/61:18 61:22/62:34 62:38/63:22	61.8/64 64.3/65,1 65.1/64,6	130 126 126 126	210 209 213 213	5, 2 5, 4 4, 6 4, 7	7, 100 7, 300 8, 500 8, 300	89 89 124 110
717 ER	2059 2060 2061 2062	WE1552 WE1553 WE1554 WE1555	N1 N2 N3 N4	1416/1454 1454/1532 1532/1608 1610/1646	15:37 S/11:29 S 11:15 S/07:09 S 06:55 S/02:83 S 02:40 S/01:31 N	63:19/63:38 63:39/64:08 64:12/64:45 64:47/65:13	64.9/65.7 65.7/66.4 66.4/67.4 67.5/67.8	121 120 119 115	215 215 215 213	4.6 4.3 3.9 3.7	13, 100 16, 500 18, 800 19, 900	158 203 252 246
718 ER	2063 2064 2065 2066	WE1580 WE1581 WE1582 WE1583	N1 N2 N3 N4	1703/1739 1741/1817 1819/1855 1857/1933	01:33 N/05:37 N 05:51 N/09:53 N 10:09 N/14:16 N 14:30 N/18:30 N	65:13/65:37 65:38/66:00 66:02/66:29 66:31/67:05	67.5/67.9 68/68.5 68.5/69.1 69.1/64.5	113 111 110 110	215 215 214 213	3.6 3.4 3.2 3.4	24, 000 20, 000 21, 000 20, 000	292 267 249 231
21 Aug	ust 1959	Sea Fish Spe	cial 7									
370	2067 2068 2069 2070 2071 2341 2072 2320 2073 2074 2342 2075 2076 2077	SF15 SF16 SF17 SF18 SF20 SF21 SF22 SF22 SF24 SF23 SF25 SF25 SF27 SF28 SF29	H1 H2 H3 H4 H5 H13 H6 H14 H7 H8 H15 H19 H10 H11	1526/1605 1605/1647 1647/1729 1729/1809 1729/1809 1729/1853 1849/1934 1934/2022 2022/2103 1934/2115 2103/2143 2143/2223 2223/2304 2304/2345	60:00 N/55:00 N 65:00 N/75:00 N 70:00 N/75:00 N 75:00 N/85:00 N 75:00 N/85:00 N 75:00 N/85:00 N 85:00 N/90:00 N 85:00 N/90:00 N 85:00 N/80:00 N 85:00 N/80:00 N 85:00 N/75:20 N 75:00 N/76:00 N 75:00 N/76:00 N 75:00 N/76:00 N 65:00 N/60:00 N	120:00 120:00 120:00 120:00 120:00 120:00/18:00 120:00 120:00 120:00 120:00 120:00 120:00 120:00 120:00 120:00	37.6/38.3 37.6/38.3 38.3/39.4 39.4/40.2	226	230 230 230 230 230 230 230 230	69.8 74.2 72.2 65.6 63.6 70.0 67.6 56.0 143.4 750.9 49.6	1, 880 1, 650 1, 720 2, 600 2, 200 2, 900 3, 200 2, 900 3, 200 2, 900 2, 200 2, 200 2, 200 2, 200	21 19 18 34 31 39 40 44 32 39 36 25 28
15 Ser	tember	1959 Mission	n 1 A									
715 MN	2079 2080 2081 2083 2082 2084 2085 2086 2087 2088	WP1960 WP1959 WP1958 FD462 WP1957 FD461 FD459 FD458 FD457	N1 N2 N3 H1 N4 H2 H3 H4 H5	1457/1547 1551/1646 1648/1737 1648/1737 1739/1836 1739/1836 1845/1934 2023/2111 2116/2208	50;17 N/55;13 N 55;25 N/60;22 N 60;34 N/65;14 N 60;34 N/65;14 N 65;25 N/69;52 N 65;25 N/69;52 N 69;52 N/69;541 N 65;30 N/60;57 N 60;46 N/55;47 N 55;34 N/50;17 N	102:30/106:1: 106:28/i11;3: 111:46/118:4 111:46/118:4 119:00/129:0 129:00/119:3 119:0 /112:1 112:04/106:4 106:38/102:3	5 55 0 55 0 55 0 55 0 55 0 60 8 60 9 60,3	158 159 159 159 159 139 139 139 139	3 218 3 218 3 218 5 220 5 220 3 221 5 219 5 218	12.0 12.8 11.6 25.3 13.3 29.1 18.0 16.3 17.8 19.3	8,700 10,000 8,100 9,800 9,400 9,500 13,400 12,700 12,800	117 121 116 124 126 136 186 188 185
717 MN	2089 2090 2091 2093 2092	WP1965 WP1966 WP1967 FD451 WP1968	N1 N2 N3 H1 N4	1402/1448 1450/1542 1545/1635 1545/1635 1638/1728	50:17 N/55:13 N 55:25 N/60:22 N 60:34 N/65:14 N 60:34 N/65:14 N 65:25 N/69:52 N	106:28/111:3 111:46/118:4 111:46/118:4	5 63.4/65 0 65/65.5 0 65/65.5	12 12 12 12 12	3 221 1 220 1 220	6,4 6,4 5,8 13,1 5,6	11,300 12,200 14,900 11,500 14,500	124 154 169 178 185
718 LN	2098 2099 2100 2102 2101 2103 2104 2105 2106 2107	WP981 WP982 WP983 FD163 WP984 FD164 FD165 FD167 FD168	N1 N2 N3 H1 N4 H2 H3 H4 H5	1510/1555 1557/1644 1646/1734 1646/1734 1736/1822 1736/1822 1834/1917 1919/2004 2006/2049 2051/2137	38:52 N/44:13 N 38:52 N/44:13 N 44:27 N/49:48 N 44:27 N/49:48 N 49:48 N/44:27 N 44:13 N/38:52 N 38:38 N/33:17 N	98:07 98:07	61.6/62. 62.6/63. 63.4/64. 63.4/64. 64.8/65. 64.8/65. 65.5/67. 67.4/68. 67.9/68. 68.5/69.	4 12 8 12 8 12 5 12 5 12 4 11 1 11	6 218 1 218 1 218 1 218 1 218 2 218 8 218 5 218 5 218	6,3 6.4 5.8 13.3 5.4 12.3 10.0 9.5 9.8	11, 400 11, 800 12, 700 14, 000 10, 600 10, 600 12, 600 12, 500 14, 500	1 82 1 86 19 0 1 87 1 93 1 94 2 29 23 1 2 22 234

Table 4.2 (continued)

										_	dpm/10	00 SCF
AC No.	HASP No.	Air Force	Filter	Time (Z)	Latitudo	Longitude	Altitude (1000 ft.)	IAS : (Kt)	°K)	10 ³ 8 <b>C</b> F	Total Beta	3r90
16 Septe	inber 195	9 Misson 1	В									
714 LS	2094 2095 2097 2096	WP773 WP774 WP776 WP775	N1 N2 N4 N3	1510/1549 1551/1632 1634/1733 1735/1830	27:44 N/24:46 N 24:37 N/21:24 N 22:32 N 22:32 N	98:05/94:30 94:19/90:40 90:47 90:47	64/65,5 65,3/65,4 65,4/66,5 66,5/67,5	122 121 116 119	2 13 214 214 214	4,9 5,0 6,8 5,8	11, 900 11, 900 13, 800 14, 600	1 69 1 77 195 2 2 3
18 Septe	mber 195	9 Mission 2										
715 MN	2108 2109 2110 2111	WP1941 WP1942 WP1943 WP1944	N1 N2 N3 N4	1812/1857 1859/1944 1946/2044 2046/2130	69:00 N/65:00 N 64:49 N/60:15 N 60:04 N/55:23 N 55:09 N/50:17 N	126:35/118:18 118:00/111:25 111:10/106:24 106:14/102:30	55 55	.1 55 155 155 155	221 218 218 218	10.4 10.6 13.7 10.4	8, 000 8, 600 8, <b>40</b> 0 9, 000	131 129 140 126
717 MN	2112 2113 2114 2116 2115 2117 2118 2119 2120	WP1945 WP1946 WP1947 FD476 WP1948 FD477 FD478 FD479 FD480	N1 N2 N3 H1 N4 H2 H3 H4	1354/1442 1444/1530 1532/1623 1543/1623 1625/1713 1625/1713 1721/1808 1810/1855 1857/1949	50:17 N/55:18 N 55:32 N/60:21 N 60:31 N/55:22 N 61:34 N/55:22 N 65:33 N/69:52 N 65:33 N/69:52 N 69:52 N/65:44 N 60:31 N/56:35 N	106:32/11k 34 111:46/118:5 113:06/118:5 119: 13/129:00 119:13/129:00 129:00/119:3 119:13/112:0	60 60 60 60 60 60 63 63 65	135 135 135 135 135 135 121 121	221 220 220 222 222 222 222 221 222	7.8 7.5 8.3 14.8 7.8 17.5 12.4 12.0	13, 800 12, 100 12, 000 12, 000 13, 000 13, 600 11, 700 14, 200 14, 600	230 184 1 61 1 61 1 88 2 14 1 70 177 197
714 LN	2121 2122 2123 2125 2124 2126 2127 2128 2129 2130	WP1 WP2 WP3 FD025 WP4 FD026 FD027 FD028 FD029 FD030	N1 N2 N3 H1 N4 H2 H3 H4 H5	1144/1231 1233/1319 1321/1407 1321/1407 1409/1458 1409/1458 1505/1552 1554/1641 1643/1726 1728/1814	27:42 N/33:03 N 33:17 N/38:38 N 38:52 N/44:13 N 38:52 N/44:13 N 44:27 N/49:48 N 44:27 N/49:48 N 44:27 N/49:48 N/44:27 N 49:48 N/44:27 N 44:13 N/38:52 N 38:38 N/33:17 N 33:03 N/27:42 N	98:07 98:07 98:07 98:07 98:07	60 60 60 60 60 62,9/64,7 64,7/65 64,5	135 135 135 135 135 135 123 121 121	209 212 215 215 218 218 218 218 215 212 209	8, 2 7, 8 7, 7 17, 5 8, 1 18, 3 13, 2 13, 2 12, 2 13, 3	8,500 10,300 11,100 12,200 11,900 12,100 11,300 13,100 10,900 12,300	130 151 166 176 165 191 175 202 165
718 LS	2131 2132 2133 2135 2134 2136 2137 2138 2139 2140	W P989 W P990 W P991 FD127 W P992 FD128 FD130 FD131 FD132	N1 N2 N3 H1 N4 H2 H3 H4 H5	1126/1216 1218/1310 1313/1402 1313/1402 1405/1457 1405/1457 1508/1545 1547/1637 1640/1728 1731/1824	27:44 N/23:40 N 23:12 N/19:23 N 19:12 N/15:04 D 19:12 N/15:04 D 14:53 N/10:56 P 14:53 N/10:56 P 10:56 N/14:53 R 15:04 N/19:12 P 19:23 N/23:30 T 23:40 N/27:44 P	7 92:53/88:42 7 88:31/84:09 7 88:59/80:07 7 83:59/80:07 7 80:07/83:59 9 84:09/88:31 8 88:42/93:13	60 60 60 60 60 64.5 65 65	135 135 135 135 135 135 121 121 121 121	206 205 206 206 206 206 209 211 212 215	8.8 9.2 8.7 19.6 9.2 20.8 10.8 14.1 13.5	7, 200 5, 400 6, 000 6, 200 5, 000 5, 600 14, 700 12, 300 11, 600	89 70 79 63 74 147 168 153 151
22 Sept	tember 19	59 Mission	<u> </u>									
717 MN	2155 2156 2157 2158 2159 2160 2151 2152 2153 2154	F D499 FD500 FD501 FD502 FD503 FD504 WP1497 WP1499 WP1500	H1 H2 H3 H4 H5 H6 N1 N2 N3	1455/1531 1533/1609 1611/1648 1650/1725 1727/1805 1807/1840 1846/1933 1940/2019 2020/2102 2104/2148	50:17 N/53:20 i 53:30 N/56:29 i 56:39 N/59:34 i 59:43 N/62:33 i 62:41 N/65:21 i 65:30 N/63:00 i 68:00 N/64:03 i 63:50 N/59:36 i 59:26 N/54:38 i 54:49 N/50:17 i	N 104:48/107: N 107:34/110: N 110:49/114: N 114:37/116: N 119:08/124: N 124:15/116:4 N 116:23/110: N 110:28/106:	26 40 40 40 25 40 30 40 15 40 60 50 62 50	1 70 170 170 170 170 170 160 160 160	218 219 221 222 223 225 225 224 224 222	33.6 33.5 34.1 32.2 34.8 30.0 13.0 11.8 11.7	1,580 1,800 2,500 3,000 4,800 6,300 8,400 8,100 6,500	22 23 27 53 43 67 111 1 03 135
714 LN	2143 2144 2141 2142	FD181 FD182 WP9 WP10	H1 H2 N1 N2	1445/1512 1514/1541 1745/1832 1835/1912	43:46 N/39:48	N 98:07 N 98:07	40 40 45 45	170 170 165 165	218	25.6 25.6 16.2 12.6	220 220 1, 510 910	V 3 2 15 8
718 LN	2145 2146	WP5 WP6	NI N2	1344/1430 1431/1506	27:43 N/32:37 32:50 N/37:45		50 50	161 160		13.6 10.0	750 ≤ 570	12 12
23 Se	ptember	1959 Mission	313									
705 LN	2161 2162 2163 2164	WP13 WP14 WP15 WP16	N1 N2 N3 N4	2025/2112 2113/2156 2158/2242 2244/2331	32:51 N/37:43 37:55 N/42:51	N 98:07 N 98:07	50 50 50 50	160 160 160	206	14.4 13.0 13.2 13.7	1, 280 1, 380 2, 600 4, 400	17 20 34 66

## Table 4, 2 (continued)

										_	dpm/10	00 SCF
AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude ("W)	Altitude (1000 ft. )	LAS (K)	Temp. (*K)	10 ³ SC F	Total Beta	Br.90
25 Septe	mber 19 <u>5</u>	9 Mission 4										
718 LN	2165 2166 2167 2168	W P25 W P26 W P27 W P28	N1 N2 N3 N4	1514/1558 1600/1647 1649/1734 1736/1821	27:43 N/33:03 N 33:17 N/38:37 N 38:51 N/44:11 N 44:25 N/49:45 N	98:07 98:07 98:07 98:07	63,6/64,3 64,3/65,7 65,7/66 66/66	123 121 119 118	214 215 218 220	5, 8 5, 7 5, 1 4, 9	11,400 13,300 13,700 12,000	206 212 212 218
705 LS	2169 2170 2171 2172	WP21 WP22 WP23 WP24	N1 N2 N3 N4	1443/1530 1532/1623 1625/1715 1717/1804	27:32 N/23:49 N 23:40 N/19:37 N 19:26 N/15:15 N 15:05 N/10:40 N	93:10/88:42 88:30/84:17	63/64.2 64/65.6 63.5/66 66/66.3	125 122 119 118	213 213 212 211	6.4 6.3 5.8 5.4	10,500 11,400 13,100 14,500	174 153 177 234
718 LN	2193 2194 2195 2196	WP33 WP34 WP35 WP36	N1 N2 N3 N4	1514/1601 1602/1648 1650/1734 1737/1820	27:43 N/33:10 N 33:17 N/38:37 N 38:51 N/44:11 N 44:25 N/49:45 N	98:07 98:07 98:07 98:07	60 60 60 60	1 35 135 .135 135	219 219 219 219	7.7 7.6 7.2 7.1	8,300 7,300 10,800 11,200	122 139 157 172
705 LS	2197 2198 2199 2200	WP29 WP30 WP31 WP32	N1 N2 N3 N4	1439/1525 1527/1617 1619/1706 1708/1755	27:43 N/24:15 N 24:06 N/20:26 N 20:16 N/16:32 N 16:22 N/12:35 N	93:43/89:37 89:26/85:35	60 60 60	135 135 135 135	215 214 213 212	7.7 8.5 7.9 8.0	7,400 7,700 5,900 5,900	100 111 87 88
30 Sept	ember 19	59 Mission 5	B									
716 MN	2182 2181 2180 2179 2178 2177 2173 2174 2175 2176	FD433 FD434 FD435 FD436 FD437 FD438 WP1357 WP1358 WP1359 WP1360	H1 H2 H3 H4 H5 H6 N1 N2 N3	1429/1504 1506/1540 1542/1618 1623/1703 1705/1744 1747/1822 1826/1907 1909/1939 1942/2019 2021/2034	50:17 N/53:20 N 53:29 N/56:27 N 56:38 N/59:32 N 59:43 N/62:31 N 62:41 N/62:21 N 65:30 N/68:00 N 68:00 N/63:50 N 63:36 N/60:20 N 60:06 N/55:55 N 55:40 N/54:15 N	104:50/107:2 107:36/110:3 110:50/114:2 114:37/118:1 119:09/124: 124:15/120: 119:53/117: 117:18/114:4	25 45 37 45 25 45 33 45 45 45 05 55 25 55	1 65 165 165 165 165 165 165 155 155	223 224 225 224 220 217 221 223 224 223	26.4 25.1 26.5 30.0 29.4 27.2 9.5 6.9 8.5 3.0	380 1,290 3,200 5,000 5,100 5,700 9,900 13,200 10,500 15,600	5 16 53 71 58 70 156 187 1 97 2 27
717 MN	2183 2184 2185 2187 2186 2188 2189 2190 2191	WP1297 WP1298 WP1299 FD445 WP1300 FD446 FD447 FD448 FD449 FD450	N1 N2 N3 H1 N4 H2 H3 H4 H5	1354/1445 1447/1536 1538/1628 1538/1628 1630/1728 1630/1728 1734/1822 1824/1906 1909/1952 1954/2039	50: 17 N/55:26 N 55:39 N/60:36 N 60:48 N/65:30 N 60:48 N/65:30 N 65:41 N/69:53 N 69:53 N/69:53 N 69:53 N/69:41 N 55:30 N/60:48 N 65:30 N/60:48 N 55:36 N/50:17 N	106:42/11: 112:06/119: 112:06/119: 119:28/129: 119:28/129: 129:00/119: 119:10/112: 111:52/106:	52 60 10 60 10 60 00 60 00 60 28 64,5 06 64.8	135 135 135 135 135 135 121 121 121	224 222 221 221 219 219 221 221 221 222	8.2 7.9 8.1 18.4 9.5 21.5 13.1 11.3 11.4	12, 300 12, 000 12, 500 15, 700 13, 100 12, 800 12, 100 12, 100 11, 800 13, 300	198 201 222 2 24 2 18 2 36 2 14 2 37 2 01 2 30
1 Octo	ber 1959	Mission 6A										
705 LN	2221 2222 2223 2224	WP41 WP42 WP43 WP44	N1 N2 N3 N4	1517/1606 1607/1655 1658/1744 1748/1832	27:43 N/32:18 R 32:29 N/37:16 R 37:27 N/42:08 R 42:30 N/47:00 R	₹ 98:07 ₹ 98:07	40 40 40 40	170 170 170 170	216 216 217 218	20.4 19.7 19.1 18.2	₹ 340 ₹ 350 ₹ 120 1,900	4 3 < 1 22
718 LN	2225 2226 2227 2228	WP37 WP38 WP39 WP40	N1 N2 N3 N4	1428/1521 1523/1608 1609/1656 1658/1739	26:48 N/32:46 I 32:53 N/37:56 I 38:03 N/42:52 I 43:05 N/48:00 I	N 98:07 N 98:07	50 50 50 50	160 160 160 160		16.9 13.8 13.8 11.6	< 340 3,300 5,800 5,800	3 43 88 76
2 Oc	tober 195	9 Mission 6B	_									
717 MN	2205 2206 2207 2208 2209 2210 2201 2202 2203 2204	F D325 F D326 F D327 F D328 F D329 F D330 W P2177 W P2178 W P2178	H1 H2 H3 H4 H5 H6 N1 N2 N3	1432/1510 1511/1559 1602/1630 1632/1654 1655/1730 1731/1751 1753/1835 1836/1853 1853/1714 1714/1742	52:21 N/55:06 1 55:13 N/56:53 1 57:00 N/58:09 58:16 N/60:11 60:19 N/61:15 61:15 N/57:22 1 77:12 N/55:54 55:45 N/53:30 53:21 N/50:17	N 103:59/106: N 106:18/107: N 107:57/109 N 109:12/111 N 111:31/112 N 112:42/108 N 108:09/106 N 106:47/104	112 30 150 30 107 30 123 30 142 30 118 35 157 35 154 35	175 175 175 175 175 173 173 173	231 233 233 233 232 229 230	44. 1 55. 6 32. 8 25. 3 39. 7 23. 1 19. 5 7. 8 9. 5	670 < 102 < 174 < 230 < 360 < 179 < 450 < 450 < 620	7 < 1 < 1 3 10 < 3 < 1 5
716 MN	2215 2216 2217 2218 2219 2220 2211 2212 2213 2214	FD319 FD320 FD321 FD322 FD323 FD324 WP2105 WP2106 WP2107 WP2108	H1 H2 H3 H4 H5 H6 N1 N2 N3	1355/1436 1437/1516 1819/1558 1602/1639 1643/1717 1721/1756 1805/1852 1853/1927 2013/2058	59:12 N/61:48 61:57 N/64:30 64:40 N/67:00 67:00 N/63:12 7 62:55 N/58:56 58:45 N/54:36	N 104:43/107 N 107:17/310 N 110:15/113 N 113:37/117 N 117:42/122 N 122:00/115 N 115:00/109 N 109:44/105	:07 40 :04 40 :25 40 :26 40 :15 50 :15 50 :47 50	170 170 170 160 160	228	36.8 35.0 33.5 31.1 31.8 13.5 9.7 12.1	1,640 < 250 < 330 7,110 < 460 < 360 3,600 3,100 3,500	23 2 2 24 2 3 48 38 38

Table 4.2 (continued)

	Hasp	Air Force	Filter	Time	1,atitude	Longitude	Altitude	LAS	Temp,	103	dpm/100 Total	. 9
	No.	No.		(Z)	<del></del>	(*W)	(1000 ft.)	(Kt)	("K)	SCF	Beta	Sr
Octo	ber 1959	Minsion 7										
16	. 2233	FD 337	н4	1424/1514	50:17N/55:26N	102:31/106:30	55	1.55	217	25, 9	9, 900	21
IN	2234	FD 338	H2	1516/1605	55; 39N/60; 36N	106:42/111:52	55	155	222	25. 1	9, 700	2
	2235	FD 339	н3	1610/1658	60:48N/65:30N	112:06/119:10	55	155	224	24, 3	11, 300	2
	2236	FD 340	H4	1701/1749	65:41N/69:52N	119:28/129:00	55	155	223	24. 4	11,700	2
	2223	WP1441	N1	1801/1850	69:52N/65:41N	129:00/119:28	60	135	223	7.8	10, 300	a
	2237	FD 341	H5	1801/1850	69: 52N/65; 41N	129:00/119:28	60	135	223	17.6	13,000	3
	2230	WP1442	N2	1852/1940	65: 30N/60: 48N	119:10/112:06	60	135	223	7.7	13, 400	ž
	2238	FD 342	н6	1852/1940	65: 30N/60: 48N	119:10/112:06	60	135	223	17.4	11, 500	2
	2231	WP1443	N3	1942/2035	60:36N/55:39N	111:52/106:42	60	135	221	8.6	12, 500	Z
	2232	WP1444	N4	2037/2127	55:26N/50:17N	106:30/102:31	60	135	219	8, 2	12,000	2
15	2239	WP2049	Ni	1354/1449	50: 17N/55: 26N	102:31/106:30	60,2/65,2	124	219	6.9	9, 800	1
N	2240	WP2050	N2	1451/1543	55: 39N/60: 36N	106:42/111:52	65.2/65.8	120	221	5.9	11, 200	- 7
	2241	WP2051	N3	1545/1634	60:48N/65:30N	112:06/119:10	65.8/66.2	118	221	5. 3	10,000	1
	2243	FD 331	H1	1545/1634	60: 48N/65: 30N	112:06/119:10	65.8/66.2	118	221	12.0	12, 100	4
	2242	WP2052	N4	1636/1728	65: 41N/69: 52N	119:28/129:00	66.2/67.2	116	222	5, 3	8,700	4
	2244	FD 332	H2	1636/1728	65:41N/69:52N	119:28/129:00	66.2/67.2	116	222	12. 1	9, 500	- 1
	2245	FD 333	н3	1731/1823	69: 52N/65: 41N	129:00/119:28	67.2/67.7	113	222	11, 2	11, 100	- 3
	2246	FD 334	H4	1824/1912	65: 30N/60: 43N	119:10/112:06	67.7/68.2	112	221	10.2	10, 900	3
	2247	FD 335	H5	1914/2009	60: 36N/55: 39N	111;52/106:42	68.2/69	111	221	11.2	11, 400	
	2248	FD 336	H6	2010/2058	55:26N/50:17N	106:30/102:31	69/70	109	220	9. 4	11,800	-
14	2249	WP45	Ni	1514/1600	27:43N/33:03N	98:07	65.6/66	118	214	5, 3	11, 100	:
N	2250	WP46	N2	1602/1650	33: 17N/38: 37N	98:07	66.2/66.6	117	215	5, 2	12, 100	
	2251	WP47	N3	1652/1739	38:51N/44:11N	98:07	66.6/67.4	116	219	4.8	13,500	
	2253	WG235	Hi	1652/1739	38:51N/44:11N	98:07	66.6/67.4					
	2252	WP48	N4	1741/1826	44:25N/49:55N	98:07	67.2/67.6	116	219	11.0	14, 300	i
	2254	WG236		1741/1826	44:25N/49:55N	98:07	67.2/67.6		219	4.5	11, 300	
			H2	1835/1924				114	219	10, 1	11,000	
	2255	WC237	H3		49:55N/44:25N	98:07	67/68.6	112	219	10, 3	15, 200	- 7
	2256	WC238	H4	1927/2013	44:11N/38:54N	98:07	68.6/69.4	110	219	9.4	13, 100	- 1
	2257	WC239	H5	2015/2102	38: 37N/33: 17N	98:07	69.5/70.2	108	215	9, 3	12, 300	
	2258	WC240	H6	2105/2152	33:03N/27:43N	98:07	70.2/71	107	214	8.8	12, 900	-
05	2259	WP49	N4	1436/1523	27:43N/24:13N	98:07/93:51	62.7/63.6	128	215	6.6	10, 300	
<b>.</b> S	2260	WP50	N2	1525/1608	24:04N/20:26N	93:40/89:37	63.4/64.7	123	212	5, 5	10, <del>1</del> 00	
	2261	WP51	N3	1610/1654	20:16N/16:32N	89:26/85:35	64.9/65.4	121	210	5.5	11,500	
	2262											
		WP52	N4	1657/1742	16:22N/12:35N	85:24/81:43	65, 4/66	120	211	5. 4	13, 400	:
Oct	ober 1959			1657/1742	16:22N/12:35N	85;24/81:43	65.4/66	120	211	5. 4	13, 400	
		Mission B	<u>.</u>								·	
05	2276	Mission 84	N1	1516/1559	27:43N/32:49N	98:07	60	135	208	7. 5	8, 000	
05	2276 2277	Mission 8/ WP54 WP53	N1 N2	1516/1559 1603/1648	27:43N/32:49N 33:17N/38:37N	98: 07 98: 07	60 60	135 135	208 212	7.5 7.7	8, 000 8, 000	
05	2276	Mission 84	N1	1516/1559	27:43N/32:49N	98:07	60	135	208	7. 5	8, 000	
05 N	2276 2277 2278 2279	Mission 8/ WP54 WP53 WP56 WP55	N1 N2 N3 N4	1516/1559 1603/1648 1650/1735 1736/1821	27:43N/32:49N 33:47N/38:37N 38:51N/44:11N 44:25N/49:45N	98:07 98:07 98:07 98:07	60 60 60	135 135 135 135	208 212 215 217	7.5 7.7 7.6 7.4	8,000 8,000 10,200 10,700	
05 -N	2276 2277 2278 2279 2280	WP54 WP53 WP56 WP55 WP55	N1 N2 N3 N4	1516/1559 1603/1648 1650/1735 1736/1821 1442/1529	27:43N/32:49N 33:17N/38:37N 38:51N/44:11N 44:25N/49:45N 27:48N/24:13N	98:07 98:07 98:07 98:07 98:12/93:51	60 60 60 60	135 135 135 135	208 212 215 217 206	7.5 7.7 7.6 7.4	8,000 8,000 10,200 10,700 8,000	
05 -N	2276 2277 2278 2279	Mission 8/ WP54 WP53 WP56 WP55	N1 N2 N3 N4	1516/1559 1603/1648 1650/1735 1736/1821	27: 43N/32: 49N 33: 17N/38: 37N 38: 51N/44: 11N 44: 25N/49: 45N 27: 48N/24: 13N 24: 04N/20: 26N	98:07 98:07 98:07 98:07	60 60 60 60	135 135 135 135	208 212 215 217 206 205	7.5 7.7 7.6 7.4 8.2 8.8	8,000 8,000 10,200 10,700 8,000 8,000	
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705 N 714 LS	2276 2277 2278 2279 2280 2281 2282 2284 2283 2285 2286 2287 2288 2289 2287 2266 2267 2271 2268 2272	Mission 8/ WP54 WP53 WP55 WP55 WP55 WP58 WP59 WC283 WP60 WC284 WC286 WC287 WC288 PMission 8 PD 484 WP1854 WP919 FD 364 WP919 FD 364 FD 362	N1 N2 N3 N4 N1 N2 N3 H1 H2 H3 H4 H5 H6 N1 H1 N2 N4	1516/1559 1603/1648 1650/1735 1736/1821 1442/1529 1530/1620 1623/1709 1622/1709 1711/1800 1711/1800 1810/1856 1858/1936 1945/2029 2032/2118 1408/1437 1443/1532 1538/1636	27: 43N/32: 49N 33; 17N/38: 37N 38: 51N/44: 14N 44: 25N/49: 45N 27: 48N/24: 13N 24: 04N/20: 26N 20: 11N/16: 32N 16: 22N/12: 35N 16: 22N/12: 35N 16: 22N/16: 22N 20: 26N/24: 04N 20: 26N/24: 04N 24: 13N/27: 48N 48: 21N/47: 00N 46: 44N/46: 20N 48: 20N/46: 29N 48: 20N/46: 29N 46: 46N/46: 39N 46: 46N/46: 39N 46: 46N/46: 39N	98:07 98:07 98:07 98:07 98:12/93:51 93:40/89:37 89:22/85:35 89:26/83:35 85:24/84:43 85:24/84:43 85:24/84:43 85:35/88:49 89:37/93:40 93:51/98:07 101:18/102:43 102:43/101:35 102:30/101:33 104:22/100:23 106:17/102:18 100:17/102:18	60 60 60 60 60 60 60 60 65 65 65 65 65 65 65 65	135 135 135 135 135 135 135 135 135 122 122 122 124 125 166 166 166 166 166 166 166 166 166 16	208 212 245 217 206 205 204 206 215 212 213 213 213 214 218 218 218 218 218 218 218 218 218 218	7.5 7.7 7.6 8.2 8.8 8.3 19.4 10.7 10.7 12.7 20.2 16.6 13.8 31.6 14.3	8,000 8,000 10,200 10,700 8,000 8,000 6,800 9,400 5,400 5,900 8,300 7,900 8,600  \$\leq 250 1,990 6,700 4,100 4,800 7,900 8,100 9,900	
705 N 714 LS	2276 2277 2278 2279 2280 2281 2282 2284 2283 2285 2286 2287 2288 2289 2266 2266 2267 2271 2268 2269	Mission 8/ WP54 WP53 WP55 WP55 WP55 WP57 WP58 WP59 WC283 WP60 WC285 WC286 WC28	M1 N2 N3 N4 N1 N2 N3 N4 H1 N2 N4 N4 H1 N2 N4 N4 N1 N2 N4 N1 N1 N2 N4 N1 N2 N3	1516/1559 1603/1648 1650/1735 1736/1821 1442/1529 1530/1620 1622/1709 1711/1800 1711/1800 1810/1856 1858/1936 1945/2029 2032/2118 1408/1437 1443/1532 1538/1636	27: 43N/32: 49N 33: 17N/38: 37N 38: 35: N/44: 13N 44: 25N/49: 45N 20: 14N/40: 26N 20: 14N/46: 32N 16: 22N/12: 35N 16: 20N/16: 29N 48: 20N/46: 29N 46: 46N/46: 39N 46: 46N/46: 39N 46: 46N/46: 39N 46: 46N/46: 39N	98:07 98:07 98:07 98:07 98:07 98:12/93:51 93:40/89:37 89:22/85:35 85:24/81:43 85:24/81:43 85:24/81:43 85:35/88:49 89:37/93:40 93:54/98:07 401:18/102:43 102:43/101:33 104:22/100:23 100:17/102:18 100:17/102:18	60 60 60 60 60 60 60 60 65 65 65 63 40 50 40 50	135 135 135 135 135 135 135 135 121 121 121 121 121 161 161 161 161 161	208 212 245 217 206 205 204 206 206 212 210 213 213 213 218 218 218 218 218 218 218 218 218 218	7.5 7.7 7.6 7.4 8.2 8.3 19.2 8.6 19.4 12.7 10.7 12.6 12.7 12.6 12.7	8,000 8,000 10,200 10,700 8,000 6,800 8,200 5,400 5,900 8,100 8,300 7,900 8,600  ≤ 250 1,990 6,700 4,100 4,100 4,100 9,900 10,700	
705 LN 714 LS	2276 2277 2278 2279 2280 2281 2282 2284 2283 2285 4286 2287 2288 2289  2266 2267 2271 2268 2272 2269 2273	Mission 8/ WP54 WP53 WP55 WP55 WP57 WP58 WP59 WC283 WP60 WC286 WC287 WC286 WC2	N1 N2 N3 N4 N1 N2 N3 N4 H12 N4 H5 H6 N2 N4 N1 N1 N2 N4 N1 N1 N2 N4 N1	1516/1559 1603/1648 1650/1735 1736/1821 1442/1529 1530/1620 1622/1709 1622/1709 1711/1800 1711/1800 1810/1856 1858/1936 1948/2029 2032/2118 1408/1437 1443/1532 1538/1636 1346/1426 1346/1426 1346/1426 1346/1426 1349/1519 1429/1519 1523/1623	27: 43N/32: 49N 33; 17N/38: 37N 38: 51N/44: 411 44: 25N/49: 45N 20: 14N/26: 26N 20: 14N/36: 32N 16: 22N/12: 35N 16: 22N/12: 35N 16: 22N/12: 35N 16: 22N/12: 35N 16: 32N/19: 40N 20: 26N/24: 04N 24: 13N/27: 48N 48: 21N/47: 00N 46: 44N/48: 20N 48: 20N/46: 29N 48: 20N/46: 39N 46: 39N 46: 39N 46: 39N	98:07 98:07 98:07 98:07 98:07 98:07 98:12/93:51 93:40/89:37 89:22/85:35 89:22/85:35 85:24/81:43 85:24/81:43 85:35/88:49 89:37/93:40 93:54/98:07 101:18/102:43 102:43/101:33 104:22/100:23 104:22/100:23 104:17/102:18 104:17/102:18 104:17/102:18 104:17/102:18 104:17/102:18	60 60 60 60 60 60 60 60 65 65 65 65 65 65 65	135 135 135 135 135 135 135 135 135 122 122 122 124 125 166 166 166 166 166 166 166 166 166 16	208 242 245 247 204 204 204 206 206 206 215 212 210 213 213 212 210 213 212 213 214 215 218 218 218 218 218 218 218 218 218 218	7.57.76.67.48.28.88.319.26.69.712.67.34.520.66.613.830.9141.330.67.97.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.712.67.71	8,000 8,000 10,200 10,700 8,000 8,000 6,800 9,400 5,400 5,900 8,300 7,900 8,600  \$\leq 250 1,990 6,700 4,100 4,800 7,900 8,100 9,900	

Table 4.2 (continued)

C No.	HARP No.	Alt Force No.	Filter	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS (Kt)	Temp.	40 ³ SCF	Total Beta	,9×90
Octo	ber 1959	Mission 9		•••••••••••••••••••••••••••••••••••••••			-		·····			
17	2292	FD 307	Hi	1433/1507	50: 17N/52:09N	102: 31/103: 49	30	175	224	41.0	280	,
AN	2293	FD 308	H2	1510/1542	32: 14N/54:00N	103:54/105:16	30	175	224	38, 1	150	≤ :
	2294	FD 309	H3	1544/1614	£4:07N/55:55N	105:24/106:55	30	175	224	35. 1	330	
	2295	FD 340	H4	1616/1647	56:04N/57:45N	107:03/108:44	30	175	223	36, 4	550	
	2296	FD 311	H5	1649/1718	57:52N/59:35N	108:50/110:40	30	175	223	34.0	670	
	2297	FD 312	H6	1720/1752	59: 42N/61:25N	110:47/112:55	30	175	222	37.7	380	
	2290 2291	WP2033 WP2034	Ni N2	1754/1826 1827/2003	61:25N/68:50N 58:40N/50:17N	112:55/109:52 109:41/102:31	35 35	173 173	220 221	15. 4 46. i	1, 200 250	3
16	2302	FD 283	Hi	1402/1443	50: 17N/53:06N	102:31/104:34	40	170	217	38.4	2, 600	
(N	2303	FD 284	H2	1444/1522	53: 15N/56:01N	104:40/107:03	40	170	218	35.4	2, 800	
•	2304	FD 286	H4	1524/1610	56: 12N/58:54N	107:11/109:55	40	170	218	42.9	3, 100	
	2305	FD 287	H5	1615/1654	59:04N/61:43N	110:04/113:16	40	170	219	36. 3	2, 300	
	2306	FD 288	H6	1710/1726	62:53N/64:07N	113:30/117:20	40,5	170	219	15, 1	2, 500	
	2298	WP1449	N1	1808/1845	67:00N/63:12N	122:00/115:23	50	160	221	10.4	€, 200	1
	2299	WP1450	N2	1847/1923	63:02N/59:03N	115:07/110:03	50	160	220	10.3	8, 300	1
	2300	WP1451	N3	1924/1959	58: 51N/54: 42N	109:52/105:50	50	160	219	10.1	4,000	1
18	2345	WP69	N1	1515/1558	27: 43N/32: 24N	98:07	45 45	165	205	15.8	390 420	
.N	2346 2347	WP70 WP71	N2 N3	1600/1638 1640/1719	32: 35N/37: 16N 37: 27N/42: 08N	98:07 98:07	45 45	165 165	205 205	13. 9 14. 3	560	
	2348	WP72	N4	1721/1804	42:19N/47:00N	98:07	45	165	205	15.8	1, 170	
14	2349	WP65	N1	1447/1540	27:43N/32:37N	98:07	50	160	197	16.9	1,090	
-N	2350	WP66	N2	1541/1627	32:50N/37:45N	98:07	50	160	197	14. 8	620	
	2351	WP67	N3	1629/1718	37:58N/42:52N	98:07	50	160	197	15.6	1,250	
	2353	WG307	H1	1629/1718	37:58N/42:52N	98:07	50	160	197	34.5	1,570	
	2352	WP68	N4	1720/1808	43:05N/48:00N	98:07	50	160	197	15.5	4,000	
	2354	WC308	H2	1720/1808	43:05N/48:00N	98:07	50	160	197	34. 1	4,700	
	2355	WC309	H3	1816/1857	48:00N/43:05N	98:07	55	150	201	22.4	8,400	- 1
	2356	WC310	H4	1900/1943	42:52N/37:58N	98:07	55 55	150 150	201 201	23, 5 23, 5	6, 300 3, 600	
4 004	1050	Gas Tieb (	Propint W									
	ober 1959										"	
	2307	SF30	H1	1744/1823	60:00N/65:00N	120:00	34.7/35	263	223	73.7	460	
	2307 2308	SF30 SF31	H1 H2	1744/1823 1823/1902	65:00N/70:00N	120:00	35/35.5	258	223	70.9	1,090	
	2307 2308 2309	SF30 SF34 SF32	H1 H2 H3	1744/1823 1823/1902 1902/1941	65:00N/70:00N 70:00N/75:00N	120:00 120:00	35/35.5 35.5/36	258 258	223 223	70. 9 70. 3	1,090 1,300	
	2307 2308 2309 2310	SF30 SF34 SF32 SF33	H1 H2 H3 H4	1744/1823 1823/1902 1902/1941 1941/2020	65:00N/70:00N 70:00N/75:00N 75:00N/80:00N	120:00 120:00 120:00	35/35.5 35.5/36 36/36.7	258 258 254	223 223 223	70. 9 70. 3 67. 9	1,090 1,300 1,510	
	2307 2308 2309 2310 2311	SF30 8F34 SF32 SF33 SF35	H1 H2 H3 H4 H5	1744/1823 1823/1902 1902/1941 1941/2020 2020/2059	65:00N/70:00N 70:00N/75:00N 75:00N/80:00N 80:00N/85:00N	120:00 120:00 120:00 120:00	35/35.5 35.5/36 36/36.7 36.7/37	258 258 254 253	223 223 223 223	70. 9 70. 3 67. 9 66. 5	1,090 1,300 1,510 1,500	
	2307 2308 2309 2310 2311 2343	SF30 SF31 SF32 SF33 SF35 SF34	H1 H2 H3 H4 H5 H14	1744/1823 1823/1902 1902/1941 1941/2020 2020/2059 1941/2059	65:00N/70:00N 70:00N/75:00N 75:00N/80:00N 80:00N/85:00N 75:00N/85:00N	120:00 120:00 120:00 120:00 120:00	35/35.5 35.5/36 36/36.7 36,7/37 36/37	258 258 254 253 249	223 223 223 223 223	70.9 70.3 67.9 66.5 131.1	1,090 1,300 1,510 1,500 2,000	
	2307 2308 2309 2310 2311 2343 2312	SF30 SF31 SF32 SF33 SF35 SF34 SF36	H1 H2 H3 H4 H5 H14	1744/1823 1823/1902 1902/1941 1941/2020 2020/2059 1941/2059 2059/2141	65:00N/70:00N 70:00N/75:00N 75:00N/80:00N 80:00N/85:00N 75:00N/85:00N 85:00N/90:00N	120:00 120:00 120:00 120:00 120:00 120:00	35/35.5 35.5/36 36/36.7 36.7/37 36/37 37/38	258 258 254 253 249 249	223 223 223 223 223 223	70.9 70.3 67.9 66.5 131.1 68.8	1,090 1,300 1,510 1,500 2,000 2,200	
	2307 2308 2309 2310 2311 2343 2312 2313	SF 30 SF 34 SF 32 SF 33 SF 35 SF 34 SF 36 SF 37	H1 H2 H3 H4 H5 H14 H6 H7	1744/1823 1823/1902 1902/1941 1941/2020 2020/2059 1941/2059 2059/2141 2059/2141	65:00N/70:00N 70:00N/75:00N 75:00N/80:00N 80:00N/85:00N 75:00N/85:00N 85:00N/90:00N 85:00N/90:00N	120:00 126:00 120:00 120:00 120:00 120:00	35/35.5 35.5/36 36/36.7 36.7/37 36/37 37/38 37/38	258 258 254 253 249 249 249	223 223 223 223 223 223 223	70.9 70.3 67.9 66.5 131.1 68.8 68.8	1,090 1,300 1,510 1,500 2,000 2,200 1,700	
	2307 2308 2309 2310 2311 2343 2312 2313 2314	SF30 SF31 SF32 SF33 SF35 SF34 SF36 SF37 SF38	H1 H2 H3 H4 H5 H14 H6 H7	1744/1823 1823/1902 1902/1941 1941/2020 2020/2059 1941/2059 2059/2141 2059/2141 2141/2229	65:00N/70:00N 70:00N/75:00N 75:00N/80:00N 80:00N/85:00N 75:00N/85:00N 85:00N/90:00N 85:00N/90:00N 90:00N/85:00N	120:00 120:00 120:00 120:00 120:00 120:00 120:00	35/35.5 35.5/36 36/36.7 36.7/37 36/37 37/38 37/38 38/38.7	258 258 254 253 249 249 249	223 223 223 223 223 223 223 223	70.9 70.3 67.9 66.5 131.1 68.8 68.8 75.1	1,090 1,300 1,510 1,500 2,000 2,200 1,700	
	2307 2308 2309 2310 2311 2343 2312 2314 2314	SF30 SF31 SF32 SF33 SF35 SF34 SF36 SF36 SF37 SF38	H1 H2 H3 H4 H5 H14 H6 H7 H8	1744/1823 1823/1902 1902/1941 1941/2020 2020/2059 1941/2059 2059/2141 2059/2141 2144/2229 2229/2310	65:00N/70:00N 70:00N/75:00N 75:00N/80:00N 80:00N/85:00N 75:00N/85:00N 85:00N/90:00N 85:00N/90:00N 85:00N/80:00N 85:00N/80:00N	120:00 120:00 120:00 120:00 120:00 120:00 120:00 120:00	35/35.5 35.5/36 36/36.7 36.7/37 36/37 37/38 37/38	258 258 254 253 249 249 249	223 223 223 223 223 223 223 223 223	70.9 70.3 67.9 66.5 131.1 68.8 68.8	1,090 1,300 1,510 1,500 2,000 2,200 1,700 1,710	
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5 Oct 705 LN	2307 2308 2309 2310 2311 2341 2342 2313 2344 2315 2344 2315 2347 2318 2319 2360 2362 2361 2363 2366 2367 2368 2369 2371 2372	SF30 SF31 SF32 SF33 SF35 SF36 SF37 SF38 SF40 SF49 SF42 SF42 SF43 SF44 WP62 WP63 WC193 WC193 WC193 WC198 WC198 WC198 WC198 WC199 WC199 WC199 WC199 WC199 WC199 WC199 WC199 WC199 WC199 WC199	H1 H2 H3 H4 H5 H16 H7 H8 H9 H15 H10 H11 H12 H13  OA  N1 N2 N1 N4 H6 N1 N2 N3 H1 N4 H6 N1 N2 N3 H1 N4 H6 N1	1744/4823 1823/1902 1902/1941 1944/2020 2020/2089 1944/2029 2059/2441 2059/2441 2059/2441 2059/2441 2010/2352 2332/0035 0035/0118 0118/0159 1512/1558 1600/1645 1646/1736 1738/1625 1738/1625 1738/1625 1738/1918 2008/2058 1438/1523 1516/1704 1616/1704 1706/1754	65:00N/76:00N 70:00N/75:00N 70:00N/85:00N 80:00N/85:00N 85:00N/90:00N 85:00N/90:00N 85:00N/85:00N 90:00N/76:00N 85:00N/76:00N 75:00N/76:00N 75:00N/76:00N 75:00N/65:00N 27:43N/33:03N 33:17N/38:37N 38:51N/44:11N 44:25N/49:45N 44:25N 44:25N/49:45N 44:25N 44	120: DO 120: D	35/35.5 35/36.7 36/36.7 36,7/37 37/38 37/38 38/38.7 38.7/39.8 38/40.7 40.7/41.5 41.5/42.3 42.3/43.4 63.4/64.2 65/65.6 65/65.6 65/65.6 65/65.6 66/6.2 66/67.5 66/67.6 66/67.6 66/67.6 66/67.6 66/67.6 66/67.6 66/67.6 66/67.6 66/67.6	258 258 254 253 249 249 245 242 242 245 227 228 228 228 229 120 120 110 111 113 113 111 111 111 111	223 223 223 223 223 223 223 223 223 223	70.9 70.3 67.3 68.8 68.8 75.1 64.3 58.9 57.9 55.0 49.7 6.1 5.5 5.4 5.4 5.4 5.4 5.4 5.4 5.4	1,090 1,300 1,510 1,500 2,000 2,200 1,700 1,200 2,700 1,870 2,200 1,720 10,600 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000 11,000	

Table 4,2 (continued)

AC No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude		Temp.	103 -	Tota	000 SCF
	No.	No.	<del></del>	(Z)	· · · · · · · · · · · · · · · · · · ·	(*W)	(1000 ft,)	(Kt)	(,K)	SCT	Beta	8r 90
6 Octob	er 1959	Mission 101	<u>.</u>									
716	2321	WP2029	Ni.	1425/1515	50: 17N/55: 26N	102:31/106:30	55	155	215	12.0	6. 100	111
MN	2322	WP2030	N2	1517/1610	55: 39N/60: 36N	106:42/111:52	55	155	217	12,6	8,000	150
	2323	WP2031	N3	1612/1703	60: 48N/65: 30N	112:06/119:10	55	155	219	12.0	9, 100	161
	2325	1	Hi	1612/1703	60: 48N/65: 30N	112:05/119:10	55	155	219	26.2	10, 300	178
	2324	WP2032	N4	1705/1756	65:41N/69:53N	119:28/129:00	55	155	223	11.6	10, 900	174
	2326	2	H2	1705/1756	65:41N/69:53N	119:28/129:00	55	155	223	25.4	13, 500	215
	2327	3	H3	1805/1952	69: 53N/65: 41N	129:00/119:28	60	135	220	17.2	11,600	186
	2328	4	H4	1854/1942	65: 30N/60: 48N	119:10/112:06	60	135	217	18.0	11, 200	199
	2329 2330	5 6	H5 H6	1944/2029 2032/2118	60: 36N/55: 39N 55: 26N/50: 17N	111:52/106:42 106:30/102:31	60 60	135 135	217 215	16.7 17.3	11, 600	185
		•									11, 400	196
717 MN	2331 2332	WP1253 WP1254	N1 N2	1407/1454 1454/1550	50: 17N/55: 26N 55: 39N/60: 36N	102:31/106:30	62,2/64 64/65.2	125 122	215 216	6.3 6.8	11, 100	166
MN	2332	WP1255 WP1255	NS N3	1552/1640	60: 48N/65: 30N	112:06/119:10	65.2/66.2	118	216	5.5	10, 400 10, 200	180
	2335	# P1235 7	H4	1552/1640	60: 48N/65: 30N	112:06/119:10	65.2/66.2	118	216	12.5	11, 100	198 183
	2334	WP1256	N4	1642/1731	65: 41N/69: 53N	119:28/129:00	66.2/67.4	116	216	5.1	10, 100	143
	2336	3	H2	1642/1731	65: 41N/69: 53N	119:28/129:00	66.2/67.4	116	216	11.6	11,000	160
	2337	9	H3	1738/1830	69: 53N/65: 41N	129:00/119:28	67/68	114	216	11.9	10, 800	135
	2338	10	H4	1832/1926	65: 30N/60: 48N	119:10/112:06	68/68.2	112	215	11.7	12, 100	154
	2339	11	H5	1927/2007	60: 36N/55: 39N	111:52/106:42	68.2/69	111	216	8, 5	12,700	145
	2340	12	H6	2008/2058	55:26N/50:17N	106:30/102:31	69/70	109	215	9.9	10, 600	170
Octo	ber 1959	Mission 11										
			•	4424 44800	WA. 4 Pag / F B. 4 4ac	400.04 /404.04	45					
715	2381	FD 301	H1	1426/1503	30: 17N/53: 11N	102:31/104:36	. 45	165	215	28.9	1, 680	22
MN	2382	FD 302	Н2	1504/1526 1528/1629	53: 20N/55: 00N		45,1/44,3	165 165	215	17.6	2, 400	33
	2383 2384	FD 303 FD 304	H3 H4	1631/1708	55: 06N/59: 28N 59: 38N/62: 23N	106:13/110:32	44.3/45	165	216 216	47.8 29.0	2, 100	22
	2385	FD 305	HS	1709/1747	62: 31N/65: 12N	114:22/118:35	45	165	216	29.6	1, 770 3, 200	22
	2386	FD 306	H6	1749/1823	65: 22N/68: 00N	118:50/124:15	45	165	218	26, 6	3, 100	24 37
	2377	WP1245	N4	1834/1906	68: 00N/64: 03N	124:15/116:43	55	155	218	7.7	9, 600	15
	2378	WP1246	N2	1908/1940	63: 52N/59: 40N	116:27/110:47	55	155	218	7.6	9, 100	157
	2379	WP1247	N3	1941/2022	59: 26N/55: 06N	110:34/106:13	55	155	218	9.7	7,800	133
	2380	WP1248	N4	2023/2107	54: 54N/50: 17N	106:03/102:31	55	155	217	10.6	5, 800	87
717	2387	WP1329	N1	1359/1449	50: 47N/55: 26N	102:31/106:30	60	135	217	8, 3	9, 500	14
MN	2388	WP1330	N2	1452/1550	55: 39N/60: 36N	106:42/111:52	60	135	216	9. 6	11,400	17
	2389	WP1331	N3	1551/1647	60: 48N/65: 30N	112:06/119:10	40	135	216	9. 2	10,700	21
	2390	WP1332	N4	1648/1743	65: 41N/69: 53N	119:28/129:00	60	135		9.0	12, 500	201
705	2391	FD 13	H4	1251/1350	18:30N	67:08	55	155	200	33, 6	1, 190	24
RO	2392	FD14	H2	1358/1457	18:30N	67:08	60	135	207	23.5	7, 200	110
•••	2393	FD 15	H3	1506/1635	18:30N	67:08	65	121	211	25.2	10,000	16
	2394	FD 16	H4	1701/1840	18: 30N	67:08	67,5/67.8	112	213	22, 3	12, 500	24
	2395	FD 17	H5	1842/2021	18:30N	67:08	67.7/69	111	214	21.3	16,000	24
748	2396	WP81	N1	1233/1328	15:00N/09:24N	67:00	60	139	206	10.2	5, 200	74
11.5	2397	WP82	N2	1328/1417	09: 10N/03:38N	67:00	60	140		8, 9	4,000	
•	2398	WP83	N3	1419/1507	03:24N/02:43B	67:00	60	138	209	8,7	3,000	5
	2400	FD7	H4	1419/1507	03: 24N/02: 138	67:00	60	138	209	19.6	4, 400	i
	2399	WP84	N4	1509/1557	02:27 5/08:00 8	67:00	60	135	209	8.3	2,700	••
	2401	FD8	H2	1509/1557	02:27 5/08:00 8	67:00	60	135	209	18.7	3, 200	5
	2402	FD9	H3	1602/1651	08:00 8/02:27 8	67:00	65	121		14. 2	8, 200	14
	2403	FD 10	H4	1653/1740	02: 13 8/03: 24N	67:00	65	121		13.3	11,600	16
	2404 2405	FD 11 FD 12	H5 H6	1742/1923 1827/1915	03: 38N/09: 50N 10: 04N/15: 00N	67:00 67:00	65 65	121		11.7	13, 100	20. 18
	_	_									12, 100	
714 RS	2406 2407	WP85 WP86	N1 N2	1203/1254 1256/1342	15:00N/09:25N 09:11N/03:37N	67:00 67:00	65.5/65.6 65.5/66.5	118		4.0 5.3	12, 300 13, 800	20 22
r.o	2408	WP87	N2 N3	1344/1433	03:23N/02:418	67:00	66.3/66.8	110		5. 4	13, 600	20
	2410	FD1	H1	1344/1433	03:23N/02:118	67:00	66.5/66.8	110		12.1	15,700	20
	2409	WP88	N4	1436/1527	02:25 8/08:00 8	67:00	67,1/68	111		5.2	11, 200	17
	2411	FD2	H2	1436/1527	02:25 5/08:00 8	67:00	67,1/68	111		11.9	10, 600	14
	2412	FD3	н3	1532/1622	08:00 8/02:25 8	67:00	68,7/68,8	111		11.0	10, 900	11
	2413	FD4	H4	1624/1712	02:11 B/03:23N	67:00	68,4/68.7	110		10, 4	15, 800	32
	2414	FD5	H5	1714/1800	03: 37N/09:11N	67:00	69/69.5	109		9.4	10,000	31
	2415	FD6	116	1804/1853	09:25N/15:00N	67:00	69.7/70.7	10		9. 1	19, 400	27

Table 4.2 (continued)

	IC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	(Kt)	Temp. (*K)	10 ³ -	Total Beta	5r.90
MATE 4241 PD 26 114 1509/1525 52,2007/54-150 104-09/163-28 30 175 227 30.0 5 57 5 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Octob		<del></del>			<del></del>			4	<del></del>			
MARY 2421 PUD26 111 1509/1505 25.2009/1509 100-007/05028 30 175 227 30.0 5 57 7		******		Yar 4	4430/4489	EO. 175/E2. 125	402-84/403-84	30	478	227	14.8	< 480	< 1
### 2422 PD 22 H3 2129/1606 \$4200/16100 105147/07070 30 175 226 43,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 66 2 443,7 5 64 2 443,7 5 6 6 2 443,7 5 6 6 2 443,7 5 6 6 2 443,7 5 6 6 2 443,7 5 6 6 2 443,7 5 6 6 2 443,7 5 6 6 2 443,7 5 6 6 2 443,7 5 6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4													` ;
2428 PD 30 Hb 1767/173 Sh 371/46128 1 1131/4628 Sh 2587/558-84 1141/26128 30 173 222 17.4 990												≤ 66	≤ ï
2428 PD 30 Hb 1767/173 Sh 371/46128 1 1131/4628 Sh 2587/558-84 1141/26128 30 173 222 17.4 990		2423	FD 28	H4	1608/1635							≤ 178	< 1
### 2445   WP1718   NS   1311/1806   64:1851/1805   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   1315/1806   13												,≤ 530	4
### 2447													. 8
2415   WP1718   133   1341/1518   551287/35141   106167/164277   35   173   222   17.4   990     716													18
2495 WP178 N4 1914/1497 S0.17W/52:46N 102.31/141-18 40 170 216 14.5 890  AMN 2430 FP 16 12 149 1407/457 S2.74W/52:46N 102.31/141-18 40 170 216 14.5 40.5 900  AMN 2431 FP 16 12 14 1407/457 S2.74W/52:46N 102.31/141-18 40 170 216 14.5 40.5 900  AMN 2432 FP 16 12 14 1407/457 S2.74W/52:46N 107/1413-18 40 170 219 31.6 2.300  AMN 2433 FP 16 12 14 1407/450 S9.06W/51-49N 107/1413-18 40 170 219 31.6 2.300  AMN 2434 FP 17 18 1502/1303 61581/642N 1407/1413-18 40 170 219 31.6 2.300  AMN 2439 WP1257 N1 1307/4507 6458W/57-00N 147.77/121-00 40 170 219 31.6 2.300  AMN 2440 WP17 N1 1307/2009 S8:581/74-58N 109-18/101-18 20 140 219 10.4 4.300  AMN 2440 WP97 N1 1308/1227 S8:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2441 WP132 N1 1308/1227 S8:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1308/1240 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1308/1240 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1208/1246 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1208/1246 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1208/1246 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1208/1246 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1208/1246 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1208/1246 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1208/1246 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1208/1246 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1428/1451 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1428/1451 S9:06W/50-24W 57:00 140 219 10.4 4.300  AMN 2443 WP132 N1 1428/1451 S9:06W/50-24W 59:06W/50-24W 5													13 8
Add   PD 14   122   1497/1527   225681/36-09N   04-27/167107   40   170   217   44.5   8.50													10
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### 2434   FD17   185   1652/1730   615581/6c29N   131.329/171.21   40   170   219   33.8   2.800   2426   WP1240   N1   1810/1813   67.0001/6247N   122:00/144-87   50   160   220   10.7   7.200   2427   WP1250   N1   1810/1813   67.0001/6247N   122:00/144-87   50   160   221   12.1   7.200   2429   WP1252   N4   2010/2052   62.3647/92024   14622/1403   35   160   220   10.7   7.200   2429   WP1252   N4   2010/2052   62.3647/92024   14622/1403   35   160   220   10.7   7.200   2429   WP1252   N4   2010/2052   54.39N/50.17N   405.42/160231   50   440   247   12.1   3,400    718   2440   WP97   N1   1120/1217   15.00N/09.24N   67.00   60   135   223   8.8   5.300    728   2419   WP180   N1   1205/1256   13.00N/09.24N   67.00   60   135   223   8.8   5.300    728   2419   WP180   N1   1205/1256   13.00N/09.58N   67.00   60   44/64, 2   124   212   6.2   12.100    729   2417   FD31   H1   446/1505   03.54N/09.32N   67.00   65.6/65.8   419   212   4.2   12.100    720   2400   WP1252   N2   1252/1541   55.47N/60.04   67.00   65.6/65.8   419   212   12.1   12.000    720   2400   WP1252   N2   1252/1541   55.47N/60.04   67.00   65.6/65.8   419   212   12.1   12.000    720   2445   WP1234   N4   1707/1755   64.40N/65.5N   12.000   55   155   222   12.5   6.800    720   2446   WP1234   N4   1707/1755   64.40N/65.5N   12.000   55   155   222   12.5   6.800    720   2446   WP1234   N4   1707/1755   64.40N/65.5N   12.000   55   155   222   12.5   6.800    721   2446   WP1234   N4   1707/1755   64.40N/65.5N   12.000   55   155   222   12.5   6.800    722   2447   WP1259   N1   1300/1467   95.5N/66.5N   110.40/140.05   155   222   12.5   6.800    722   2448   WP1234   N4   1707/1755   64.40N/65.5N   12.000/140.05   155   222   12.5   6.800    722   2446   WP1234   N4   1707/1755   64.40N/65.5N   12.000/140.05   155   155   222   12.5   6.800    724   WP1250													24
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RE 2441 WP99 N1 1205/1206 09:10N/04:18N 67:00 60 135 223 5.9 5.200  705 2439 WP99 N1 1205/1256 15:00N/04:18N 67:00 64.4/64.3 124 213 5.7 10,700 RE 2438 WP90 N2 1258/346 09:14N/05:32N 67:00 65.6/68.8 149 212 13.3 11,800 2415 FP332 H12 1507/1554 09:46N/15:32N 67:00 65.6/68.8 149 212 13.3 11,800 2415 FP332 H12 1507/1554 09:46N/15:00N 67:00 65.6/68.8 149 212 13.3 11,800 2415 FP332 N3 1614/1503 09:51N/09:32N 67:00 65.6/68.8 149 212 13.3 11,800 2415 FP332 N3 1614/1705 69:54N/15:00N 67:00 65.6/68.8 149 212 12.1 12,000 2416 PP332 N2 1532/1611 59:47N/05-14N 100:30/112:00 55 155 222 12.5 6,800 2446 WP1323 N3 1614/1705 69:54N/65-13N 100:30/112:00 55 155 223 11.9 8,500 2446 WP1323 N3 1614/1705 69:54N/65-13N 112:15/119:28 55 155 223 11.9 8,100 2446 WP1323 N3 1614/1705 69:54N/65-13N 112:15/119:28 55 155 223 11.9 8,100 2446 WP1324 N4 1707/1735 69:44N/65-13N 112:15/119:28 55 155 222 12.1 7,000 2447 PP324 H2 1707/1735 69:44N/65-13N 112:15/119:28 55 155 222 11.1 7,000 2446 PP331 H3 100:1487 69:55N/65-28N 119:44/120:00 55 155 222 11.1 7,000 2446 PP331 H3 100:1487 69:55N/65-28N 119:44/120:00 55 155 222 11.1 7,000 2446 PP331 H3 100:1487 69:55N/65-28N 119:44/120:00 55 155 222 11.1 7,000 2446 PP331 H3 100:1487 69:55N/65-28N 119:44/120:00 55 155 222 11.1 7,000 2446 PP331 H3 100:1487 69:55N/65-28N 119:44/120:00 55 155 222 11.1 7,000 2446 PP331 H3 100:1487 69:55N/65-28N 119:44/120:00 55 155 222 11.1 7,000 2450 PP334 H4 1844/132 69:56N/65-38N 119:44/120:00 55 155 222 11.1 8,000 2450 PP334 H4 1844/132 69:56N/65-38N 119:44/120:00 55 155 222 11.1 8,000 2450 PP334 H4 1844/132 69:56N/65-38N 119:44/120:00 55 155 222 11.1 6,000 2450 PP334 H4 1844/132 69:56N/65-38N 119:44/120:00 55 155 222 11.1 6,000 2450 PP334 H3 1844/132 69:56N/65-38N 119:56N/65-38N													40
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### 2438   WP90   N2   1288/\$346   09:1431/03:371N   67:00   64. 4/64.3   122   212   6.2   12; 100   2436   FD 32   12   1507/1554   09:46N/15:00N   67:00   65. 6/65.8   148   212   12.1   12; 000    ### 2436   FD 32   12   1507/1554   09:46N/15:00N   67:00   65. 6/65.8   148   212   12.1   12; 000    ### 2436   FD 32   N2   1507/1554   09:46N/15:00N   67:00   65. 6/66.6   148   212   12.1   12; 000    ### 2436   WP1322   N2   1503/1513   50:45N/15:34N   102:31/106:20   55   155   222   12.5   6.800    ### 2438   WP1322   N2   1503/1513   50:45N/15:34N   102:31/106:20   55   155   222   12.5   6.800    ### 2436   WP1323   N3   1614/1705   60:45N/15:37N   112:35/14:152   55   155   223   11.5   8.500    ### 2446   WP1323   N3   1614/1705   60:45N/15:37N   112:35/14:152   55   155   223   11.5   8.500    ### 2446   WP1323   N3   1604/1705   60:45N/15:37N   112:35/14:152   55   155   223   11.5   9.200    ### 2446   WP1324   N4   1707/1715   60:45N/15:37N   112:35/14:152   55   155   223   11.5   9.200    ### 2446   WP1324   N4   1707/1715   60:45N/15:37N   112:35/14:152   55   155   223   11.5   9.200    ### 2446   WP1324   N4   1707/1715   60:45N/15:37N   119:48/12:100   55   155   223   11.5   9.200    ### 2446   WP1324   N4   1707/1715   60:45N/15:37N   119:48/12:100   55   155   222   14.1   7.000    ### 2446   WP1324   N4   1707/1715   60:45N/15:37N   119:48/12:100   55   155   222   14.1   7.000    ### 2449   PD 34   H4   1849/1937   61:16N/10:34N   119:48/12:100   55   155   222   14.1   7.000    ### 2450   WP1323   N3   1604/1814   69:55N/16:53N   119:48/12:100   55   155   222   14.1   10.800    ### 2450   WP1324   N4   1404/1812   69:55N/16:53N   111:35/14:112   60   135   222   16.8   10.800    ### 2450   WP1323   N3   1357/1452   50:17N/55:44N   102:31/106:28   61:2/65.6   123   218   6.9   9.000    ### 2450   WP1323   N3   1357/1452   50:17N/55:45N   106:35/12:13   60:65/1/2:31   60:65/1/2:31   60:65/1/2:31   60:65/1/2:31   60:65/1/2:31   60:65/1/2:31   60:65/1/2:31   60:65/1/2:31   60:65/1/2:31   6	705	2430	WDSO	374	1205/1254	44.00W/00.48W	67-00	64/64.2	124	24 3	6. 7	10.700	175
2437 FD 31 H1 446/1509 03:6181/09:32N 67:00 65.6/65.8 419 212 12.1 12.000  17 October 1959 Mission 13A  746 2442 WP4321 N1 1425/1519 50:47N/55:34N 102:31/106:20 55 155 222 12.5 6.800  M 2445 WP4322 N2 1524/1611 55:47N/60:41N 106:07/112:00 55 155 223 11.5 8.500  2446 FD 31 H1 1646/4703 66:54N/65:37N 118:157/159:28 55 155 223 11.5 8.500  2446 FD 31 H1 164/4703 66:54N/65:37N 118:157/159:28 55 155 223 11.7 8.500  2446 FD 31 H1 164/4703 66:54N/65:37N 118:157/159:28 55 155 223 11.7 8.500  2446 FD 31 H1 164/4703 67:44N/65:37N 118:157/159:28 55 155 222 12.5 7, 7200  2447 FD 32 H2 14707/1233 69:44N/65:37N 118:157/159:28 55 155 222 12.5 7, 7200  2448 FD 31 H3 1801/487 69:55N/65:29N 118:157/159:28 55 155 222 14.3 6, 800  2449 FD 31 H3 1801/487 69:55N/65:29N 118:157/159:28 55 155 222 14.3 6, 800  2449 FD 31 H3 1801/487 69:55N/65:29N 118:157/159:38 55 155 222 14.3 6, 800  2450 FD 35 H5 1940/2025 60:23N/55:30N 118:157/152:31 50 155 222 14.3 6, 800  2451 FD 36 H6 2026/2112 55:19N/50:17N 106:051/02:31 50 155 222 14.3 6, 800  2452 WP1932 N1 3357/1452 50:17N/55:44N 106:37/162:31 50 155 222 14.3 6, 800  2455 WP1930 N2 1434/1549 55:48N/60:53N 118:157/162:31 50 155 222 14.4 14, 1500  2455 WP1930 N2 1434/1549 55:48N/60:53N 106:051/02:31 50 155 222 14.4 14, 1500  2455 WP1930 N2 1434/1549 55:168N/60:39N 112:30/149:32 65.6/66 117 220 5.2 10.900  2456 FD 19 H1 1551/1639 61:03N/65:39N 112:30/149:32 65.6/66 117 220 5.2 10.900  2457 FD 20 H2 H3 137/1452 69:58N/69:53N 113:30/149:32 65.6/66 117 220 5.2 10.900  2469 WE1162 N1 1309/1556 27.43N/33:03N 98:07 65.4/66.3 111 27.9 9, 70 10.000  2469 WE1164 N3 1469/1731 35:51N/46:14N 98:07 65.4/66.3 11 27.9 9, 70 10.000  2470 WE1165 N4 1339/1454 99:58N/69:57N 118:05/162:31 69/70 110 218 9, 9 10.000  2471 WE1165 N4 1398/1490 29:58N/69:57N 118:05/162:31 69/70 110 218 9, 9 10.000  2472 WE1165 N4 1339/1491 93:51N/69:01 99:07 65.4/66.3 111 27.9 9, 9 10.000  2474 WE1165 N4 1398/1490 29:29N 99:17 65.4/66.3 111 27.9 11.9 11.9 10.0000  2475 WE1164 N3 1469/1731 38:51N/48-14N 98:07 66.3/66.3 113 221 50.5 1.9 1.													194
77 October 1959 Mission 13A  776 2442 WP1322 N2 1924/1661 55147N/56194N 102:31/106:20 55 155 222 12.5 6,800  MN 2443 WP1322 N2 1924/1661 55147N/56194N 106:30/112:00 55 155 223 11.5 8,500  2446 WP1323 N3 1644/1705 66:54N/65:37N 112:15/119:28 55 155 223 11.5 8,100  2446 WP1323 N3 1644/1705 66:54N/65:37N 112:15/119:28 55 155 223 11.5 8,100  2446 PD31 H1 1644/1705 66:54N/65:37N 112:15/119:28 55 155 223 11.5 8,100  2447 WP1322 N2 H2 1707/1755 86-44N/69:53N 119:48/129:00 55 155 222 25.9 9,200  2447 PD32 H2 1707/1755 86-44N/69:53N 119:48/129:00 55 155 222 12.1 1,7 0.000  2449 PD33 H3 1004/1887 69:53N/69:53N 119:48/129:00 55 155 222 14.5 6,800  2449 PD33 H3 1004/1887 69:53N/69:53N 119:48/129:00 55 155 222 14.5 6,800  2449 PD33 H3 1004/1887 69:53N/69:53N 129:00/141:122  2449 PD33 H5 1604/1887 69:53N/69:53N 129:00/141:122  2450 PD35 H5 16 2026/2112 55:19N/50:17N 106:05/102:34 60 135 222 14.5 10,800  2451 PD36 H6 2026/2112 55:19N/50:17N 106:05/102:34 60 135 221 16.7 12,600  MN 2453 WP1930 N2 1438/1549 55:54N/60:55N 106:35/122:35 65,6/66 117 220 5.2 10,900  2456 WP1931 N3 1551/1639 61:03N/65:39N 112:30/1419:32 65,6/66 117 220 5.2 10,900  2457 PD30 H2 1444/1549 55:50N/69:53N 112:30/1419:32 65,6/66 117 220 5.2 10,900  2458 PD31 H3 1951/1639 61:03N/65:39N 112:30/1419:32 65,6/66 117 220 5.2 10,900  2459 PD32 H6 1644/1723 65:50N/69:53N 113:151/129:00 66/66,6 117 220 5.2 10,900  2459 PD32 H6 1644/1723 65:50N/69:53N 113:151/129:00 66/66,6 117 220 5.2 10,900  2459 PD32 H8 1951/1298 60:28N/55:37N 115:151/129:00 66/66,6 117 220 5.2 10,900  2460 PD31 H1 150N/51731 35:15N/640 N1 18:50N/129:00 66/66,6 117 220 5.2 10,900  2470 WE1695 N1 1539/1439 60:28N/55:37N 115:15N/640 N1 18:50N/129:30 67.26/67, 116 214 15.0 9, 900  2470 WE1695 N2 1733/1819 44:28N/49:49N 98:07 65:1/68,8 111 219 9,7 13,500  2470 WE1695 N1 1539/1439 60:28N/55:37N 98:07 65:1/66,9 112 212 15.1 10,000  2471 WE1695 N1 1539/1439 60:28N/55:37N 99:07 65:1/66,9 112 212 15.1 10,000  2471 WE1695 N1 1539/1439 37:08N/2713 30:08N/2713 99:07 65:1/66,9 112 212 25.3 10,000  2465 WC179							67:00	65.6/65.8	119	212			218
716 2442 WP1321 N1 1428/1519 50:47N/55:34N 102:31/106:20 55 155 222 12.5 6,800 MN 2443 WP1322 N2 1521/1611 59:47N/60:41N 106:30/112:00 55 155 223 11.5 8,500 2446 WP1324 N4 1707/1755 60:54N/65:37N 112:15/19:28 55 155 223 11.9 8,100 2446 FD 31 H1 1614/4705 00:54N/65:37N 112:15/19:28 55 155 223 25.9 9,200 2447 FD 32 H2 1707/1755 69:44N/69:53N 119:44/12:00 55 155 223 25.9 9,200 2448 FD 33 H3 1809/1887 69:54N/69:53N 119:44/12:00 55 155 222 11.1 7,000 2449 FD 33 H3 1809/1887 69:53N/65:29N 129:00/19:15 60 135 222 14.6 8,800 2449 FD 34 H4 1849/197 69:53N/65:29N 129:00/19:15 60 135 222 16.8 10,800 2449 FD 35 H5 1940/2025 60:23N/59:100 11:15/64/12:00 55 155 222 24.3 6,800 2450 FD 35 H5 1940/2025 60:23N/59:100 11:15/64/12:00 55 155 222 24.3 6,800 2451 FD 36 H6 2026/2112 55:19N/50:17N 106:05/102:31 60 135 222 16.4 11,800 2451 FD 36 H6 2026/2112 55:19N/50:17N 106:05/102:31 60 135 222 16.7 12,600  715 2452 WP1939 N2 1454/1549 50:17N/59:44N 106:05/102:31 60 135 222 16.7 12,600  AN 2453 WP1930 N2 1454/1549 50:17N/59:44N 106:05/102:31 60 135 221 16.7 12,600  2456 FD 19 H1 1551/1639 61:03N/65:39N 112:30/149:22 65.6/66 117 220 5.2 10,900 2458 FD 31 H3 1551/1639 61:03N/65:39N 112:30/149:22 65.6/66 117 220 11.8 11,100 2458 FD 32 H2 1641/1732 65:50N/69:53N 119:51/129:00 66/66,6 117 221 11.8 11,100 2458 FD 32 H2 1641/1732 65:50N/69:53N 119:51/129:00 66/66,6 117 221 12, 12, 10,300 2458 FD 31 H3 1735/1839 60:26N/55:3N 119:51/129:00 66/66,6 117 221 12, 11, 10,000 2450 WE1655 N2 1558/1643 33:17N/36:37N 98:07 65.4/65.3 118 219 9, 7 13,500 2461 FD 32 H5 1952/1958 60:26N/55:3N 19:51/129:00 66/66,6 117 221 5.3 7, 10,000 2461 FD 32 H5 1952/1958 60:26N/55:3N 19:51/129:00 66/66,6 117 221 12, 12, 2 10,000 2469 WE1655 N4 1733/1819 44:28N/49140N 98:07 65.4/65.3 118 219 9, 7 13,500 2479 WE1655 N4 1733/1819 44:28N/49140N 98:07 65.4/65.3 118 219 1.1 10,000 2479 WE1655 N4 1733/1819 44:28N/49140N 98:07 65.4/65.5 116 214 15.5 1,000 2479 WE1655 N4 1733/1819 44:28N/49140N 98:07 65.4/65.5 116 214 15.5 1,000 2465 WC173 H4 1958/2008 29:90 99:17 65.4/65.5 116		2436	FD 32	H2	1507/1554	09:46N/15:00N	67:00	65.8/66.6	118	212	12. 1	12,000	189
NAM   2443   WP1322   N2   1521/1611   59,477/80-641N   106:30/112:00   55   155   223   11,5   8,500	27 Octo	ber 1959	Mission 13.	<u> </u>									
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LN 2468 WE1653 N2 1598/1643 33:47N/38:37N 98:07 65.6/66.3 148 243 5.1 11,300 2469 WE1654 N3 1645/1731 38:51N/44:11N 98:07 66.3/66.7 146 214 11.5 12,700 2471 WE1655 N4 1733/1819 44:25N/49:40N 98:07 66.7/67.4 114 215 4.7 11,400 2472 WE1070 H2 1733/1819 44:25N/49:40N 98:07 66.7/67.4 114 215 10.8 9,500 2473 WE1170 H2 1733/1819 44:25N/49:45N 98:07 66.7/67.4 114 215 10.8 9,500 2473 WE1170 H3 1829/1916 49:45N/44:25N 98:07 67.2/68.5 113 215 10.6 10,500 2474 WE172 H4 1918/2004 44:41N/38:51N 98:07 67.2/68.5 113 215 10.6 10,500 2475 WE173 H5 2007/2054 38:37N/38:51N 98:07 68.3/68.9 111 214 9.5 11,600 2475 WE174 H6 2057/2143 33:03N/27:43N 98:07 69.8/70.4 108 212 9.1 11,900 2465 WE176 H2 1638/1756 29:29N 99:17 59.7/59 135 212 23.5 7,800 2464 WE177 H3 1803/1933 29:29N 99:17 62.4/62.5 127 212 25.3 8,800 2466 WE179 H5 2108/2243 29:29N 99:17 67.2/68.5 122 21.9,4 10,300 2465 WE178 H4 1938/2108 29:29N 99:17 67.3/69 112 212 19.9 11,900 2465 WE178 H4 1938/2108 29:29N 99:17 67.3/69 112 212 19.9 11,900 2466 WE179 H5 2108/2243 29:29N 99:17 67.3/69 112 212 19.9 11,900 2466 WE179 H5 2108/2243 29:29N 99:17 67.3/69 112 212 19.4 10,300 2478 WE1650 N2 1531/1615 24:0N/26:25N 93:40/89:37 64.2/65 122 212 5.5 13,700 2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 56/65.4 120 212 5.3 10,460	754	2467	WE:1652	- Ní	1509/1556	27: 43N/33:03N	98:07	65.1/65.6	121	212	5.7	10.000	16
2469 WE1694 N3 1645/1731 38:51N/44:11N 98:07 66,3/66,7 116 214 5.0 9.100 2471 WC169 H1 1645/1731 38:51N/44:11N 98:07 66,3/66,7 116 214 11.5 12.700 2470 WE1655 N4 1733/1819 41:25N/994N 98:07 66.7/67.4 114 215 1.7 11,400 2472 WC170 H2 1733/1819 42:25N/994N 98:07 66.7/67.4 114 215 10.8 9.500 2473 WC171 H3 1829/1916 49:45N/49:45N 98:07 66.7/67.4 114 215 10.8 9.500 2474 WC172 H4 1948/2004 41:41N/38:51N 98:07 68.3/68,9 111 214 9.5 11,600 2475 WC173 H5 2007/2054 38:37N/33:17N 98:07 68.9/69.7 109 213 9.7 12,100 2476 WC174 H6 2057/2143 33:03N/27:43N 98:07 68.9/69.7 109 213 9.7 12,100 2478 WC175 H1 1534/1631 29:29N 99:17 69.8/70.4 108 212 9.1 11,900  718 2462 WC175 H2 1638/1756 29:29N 99:17 59.7/59 135 212 23.5 7,800 2463 WC176 H2 1638/1756 29:29N 99:17 65.2/67 117 212 23.1 9.600 2465 WC178 H4 1938/2108 29:29N 99:17 65.2/67 117 212 23.1 9.600 2466 WC179 H3 2108/2243 29:29N 99:17 65.2/67 117 212 23.1 9.600 2466 WC179 H3 2108/2243 29:29N 99:17 67.9/69 112 212 19.4 10,300  705 2477 WE1648 N1 1442/1529 27:43N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9.600 1.8 2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.3 10,400													18
2471 WC169 H1 1645/734 38:51N/44:11N 98:07 66.7/67.4 114 215 10.8 9.500 2472 WC170 H2 1733/1819 44:25N/49:45N 98:07 66.7/67.4 114 215 10.8 9.500 2473 WC171 H3 1829/1916 49:45N/49:45N 98:07 66.7/67.4 114 215 10.8 9.500 2474 WC172 H4 1918/2004 44:11N/38:15N 98:07 67.2/68.5 113 215 10.6 10.500 2475 WC173 H5 2007/2094 38:57N/35:17N 98:07 68.3/68.9 111 214 9.5 11.600 2475 WC174 H6 2057/2143 33:03N/27:43N 98:07 68.9/69.7 109 213 9.7 12,100 2476 WC174 H6 2057/2143 33:03N/27:43N 98:07 69.8/70.4 108 212 9.1 11,900 213 9.7 12,100 2453 WC176 H2 1638/1756 29:29N 99:17 59.7/59 135 212 23.5 7.800 2464 WC177 H3 1803/1933 29:29N 99:17 62.4/62.5 127 212 25.3 8.800 2465 WC178 H4 1938/2108 29:29N 99:17 65.2/67 117 212 23.1 9.600 2465 WC178 H4 1938/2108 29:29N 99:17 65.2/67 117 212 23.1 9.600 2466 WC179 H5 2108/2243 29:29N 99:17 67.9/69 112 212 19.9 11.900 2466 WC179 H5 2108/2243 29:29N 99:17 67.9/69 112 212 19.4 10.300 2467 WE1648 N1 1442/1529 27:45N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9.600 15 2477 WE1648 N1 1442/1529 27:45N/24:13N 98:07/93:51 61.2/64 127 212 5.5 13,700 2479 WE1650 H3 1617/1701 20:16N/16:32N 89:26/85:35 65/65.4 120 212 5.5 10,400													19
2472 WC170 H2 1733/1819 44:25N/49:48N 98:07 66.7/67.4 114 215 10.8 9.500 2473 WC171 H3 1829/1916 49:45N/44:25N 98:07 67.2/68.5 113 215 10.6 10.500 2474 WC172 H4 1948/2004 44:14N/38:51N 98:07 68.3/68.9 111 214 9.5 11.600 2475 WC173 H5 2007/2054 38:37N/33:17N 98:07 68.9/69.7 109 213 9.7 12.100 2476 WC174 H6 2057/2143 33:03N/27:43N 98:07 69.8/70.4 108 212 9.1 11.900  718 2462 WC175 H1 1534/1631 29:29N 99:17 59.7/59 135 212 23.5 7.800 2463 WC176 H2 1638/1756 29:29N 99:17 59.7/59 135 212 25.3 8.800 2464 WC177 H3 1803/1933 29:29N 99:17 65.2/67 117 212 23.1 9.600 2465 WC178 H4 1938/2108 29:29N 99:17 65.2/67 117 212 23.1 9.600 2466 WC179 H3 2108/2243 29:29N 99:17 67.9/69 112 212 19.4 10,300  705 2477 WE1648 N1 1442/1529 27:43N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9.600 1.3 2478 WE1649 N2 1531/1615 24:04N/20:26N 93:40/89:37 64.2/65 122 212 5.5 13,700 2479 WE1650 H3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.3 10,400			WC169	H1									19
2473 WC171 H3 1829/3916 49:45N/44:25N 98:07 67.2/68.5 113 215 10.6 10.500 2474 WC172 H4 1918/2004 44:41N/38:351N 98:07 68.3/68.9 111 214 9.5 11.600 2475 WC173 H5 2007/2034 38:37N/33:47N 98:07 68.9/69.7 109 213 9.7 12;100 2476 WC174 H6 2057/2143 33:03N/27:43N 98:07 69.8/70.4 108 212 9.1 11,900  718 2462 WC175 H1 1531/1631 29:29N 99:17 59.7/59 135 212 23.5 7,800 2463 WC176 H2 1638/1756 29:29N 99:17 62.4/62.5 127 212 25.3 8,800 2464 WC177 H3 1803/1933 29:29N 99:17 62.4/62.5 127 212 25.3 8,800 2465 WC178 H4 1938/2108 29:29N 99:17 65.2/67 117 212 23.1 9,600 2466 WC179 H5 2108/2243 29:29N 99:17 67.9/69 112 212 19.9 11,900 2466 WC179 H5 2108/2243 29:29N 99:17 67.9/69 12 212 19.4 10,300  705 2477 WE1648 N1 1442/1529 27:48N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9,600 18 2478 WE1649 N2 1531/1615 24:04N/20:26N 93:40/89:37 64.2/65 122 212 5.5 13,700 2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.5 3 10,400													21
2474 WC172 H4 1948/2004 44:11N/38:51N 98:07 68.3/58.9 111 214 9.5 11.600 2475 WC173 H5 2007/2014 38:57N/35:17N 98:07 68.9/69.7 109 213 9.7 12,100 2476 WC174 H6 2057/2143 33:03N/27:43N 98:07 69.8/70.4 108 212 9.1 11,900  718 2462 WC175 H1 1531/1631 29:29N 99:17 59.7/59 135 212 23.5 7,800 2463 WC176 H2 1638/1756 29:29N 99:17 62.4/62.5 127 212 25.3 8,800 2464 WC177 H3 1803/1933 29:29N 99:17 65.2/67 117 212 23.1 9,600 2465 WC178 H4 1938/2108 29:29N 99:17 65.2/67 117 212 23.1 9,600 2466 WC179 H5 2108/2243 29:29N 99:17 67.9/69 112 212 19.9 11,900 2466 WC179 H5 2108/2243 29:29N 99:17 69/70.2 109 212 19.4 10,306  705 2477 WE1648 N1 144/1529 27:43N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9.600 1.8 2478 WE1649 N2 1531/1615 24:04N/20:26N 93:40/89:37 64.2/65 122 212 5.5 13,700 2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.5 10,400													49
2475 WC173 H5 2007/2054 38:37N/33:17N 98:07 68.9/69.7 109 213 9.7 12,100 2476 WC174 H6 2057/2143 33:03N/27:43N 98:07 69.8/70.4 108 212 9.1 11,900  718 2462 WC175 H1 1531/1631 29:29N 99:17 59.7/59 135 212 23.5 7,800 2463 WC176 H2 1638/1756 29:29N 99:17 62.4/62.5 127 212 25.3 8.800 2464 WC177 H3 1803/1933 29:29N 99:17 65.2/67 117 212 23.1 9.600 2465 WC178 H4 1938/2108 29:29N 99:17 65.2/67 117 212 23.1 9.600 2466 WC179 H3 2108/2243 29:29N 99:17 67.9/69 112 212 19.9 11,900 2466 WC179 H3 2108/2243 29:29N 99:17 69/70.2 109 212 19.4 10,300  705 2477 WE1648 N1 1442/1529 27:43N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9.600 1.3 2478 WE1649 N2 1531/1615 24:04N/20:26N 93:40/89:37 64.2/65 122 212 5.5 13,700 2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.3 10,400													10
2476 WC174 H6 2057/2143 33:03N/27:43N 98:07 69.8/70.4 108 212 9.1 11,900  718 2462 WC175 H1 1531/1631 29:29N 99:17 59.7/59 135 212 23.5 7,800  1.0 2463 WC176 H2 1638/1756 29:29N 99:17 62.4/62.5 127 212 25.3 8,800  2464 WC177 H3 1803/1933 20:29N 99:17 65.2/67 117 212 23.1 9,600  2465 WC178 H4 1938/2108 29:29N 99:17 67.9/69 112 212 19.9 11,900  2466 WC179 H5 2108/2243 29:29N 99:17 67.9/69 12 212 19.4 10,300  705 2477 WE1648 N1 1442/1529 27:43N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9,600  1.5 2478 WE1649 N2 1531/1615 24:04N/20:28N 93:40/89:37 64.2/65 122 212 5.5 13,700  2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 55/65.4 120 212 5.5 10,400													21
LO 2463 WC176 H2 1638/1756 29:29N 99:17 62.4/62.5 127 212 25.3 8.800 2464 WC177 H3 1803/1933 29:29N 99:17 65.2/67 117 212 23.1 9.600 2465 WC178 H4 1938/2108 29:29N 99:17 67.9/69 112 212 19.9 11.900 2466 WC179 H5 2108/2243 29:29N 99:17 69/70.2 109 212 19.4 10,300 200 200 200 200 200 200 200 200 200													21
LO 2463 WC176 H2 1638/1756 29:29N 99:17 62.4/62.5 127 212 25.3 8.800 2464 WC177 H3 1803/1933 29:29N 99:17 65.2/67 117 212 23.1 9.600 2465 WC178 H4 1938/2108 29:29N 99:17 67.9/69 112 212 19.9 11.900 2466 WC179 H5 2108/2243 29:29N 99:17 69/70.2 109 212 19.4 10,300 705 2477 WE1648 N1 1442/1529 27:43N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9.600 1.8 2478 WE1649 N2 1531/1615 24:04N/20:26N 93:40/89:37 64.2/65 122 212 5.5 13,700 2479 WE1650 M3 1617/1701 20:16N/16:32N 89:26/85:35 65/65.4 120 212 5.3 10,400	718	2462	WC175	Hi	1534/1631	29: 29N	99: 17	59,7/59	139	212	23. 5	7. 800	1
2464 WC177 H3 1803/1933 29:29N 99:17 65.2/67 117 212 23.1 9,600 2465 WC178 H4 1938/2108 29:29N 99:17 67.9/69 112 212 19.9 11,900 2466 WC179 H5 2108/2243 29:29N 99:17 69/70.2 109 212 19.4 10,300  705 2477 WE1648 N1 142/529 27:43N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9,600 LS 2478 WE1649 N2 1531/1615 24:04N/20:26N 93:40/89:37 64.2/65 122 212 5.5 13,700 2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.3 10,400													i
2465 WC178 H4 1938/2108 29;29N 99:17 67.9/69 112 212 19.9 11,900 2466 WC179 H3 2108/2243 29;29N 99:17 69/70.2 109 212 19.4 10,300 705 2477 WE1648 N1 1442/1529 27:43N/24;13N 98:07/93:51 61.2/64 127 212 6.4 9.600 13 2478 WE1649 N2 1531/1615 24:04N/20:26N 93:40/89:37 64,2/65 122 212 5.5 13,700 2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.3 10,400												9, 600	1
2466 WC179 H5 2108/2243 29:29N 99:17 69/70.2 109 212 19.4 10,300  705 2477 WE1648 N1 1442/1529 27:43N/24:13N 98:07/93:51 61.2/64 127 212 6.4 9.600  1.S 2478 WE1649 N2 1531/1615 24:04N/20:26N 93:40/89:37 64.2/65 122 212 5.5 13,700  2479 WE1650 M3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.3 10,400												11, 900	1
LS 2478 WE1649 NZ 1531/1615 24:04N/20:26N 93:40/89:37 64,2/65 122 212 5.5 13,700 2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 65/65,4 120 212 5.3 10,400												10, 300	1
2479 WE1650 N3 1617/1701 20:16N/16:32N 89:26/85:35 65/65.4 120 212 5.3 19,400													1
	LS												1
2480 WE1651 N4 1703/1747 16:22N/12:35N 85:24/81:43 65.4/66.2 119 212 5.1 11,980													1 2

Table 4, 2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude		Temp.	103 -	T'otal	000 SC
	No.	No.		(Z)		(*W)	(1000 ft.)	(Kt)	('K)	SCF	Bota	Sr ⁹⁰
	ber 1959	Mission 14										
115	2481	WP2209	N1	1405/1435	48:20N/46:41N	101:57/102:43	30	175	218	16.2	1,000	13
10	2485	FD 43	H1	1405/1435	48:20N/46:41N	101:57/102:43	30	175	218	36.5	≤ 780	10
	2482	WP2310	NZ	1440/1529	46:40N/48:20N	102:10/101:15	39.5	170	223	20.3	1,700	23
	2483	WP2211	N3	1538/1640	48:20N	102:12/101:51	50	160	222	17, 3	3, 200	53
	2484	WP2212	N4	1649/1744	48; 20N/48: 17N	102:42/102:44	57	146	221	11.0	3, 700	74
117	2486	WP1325	N1	1348/1424	48: 20N/46: 39N	101:20/100:42	45	165	222	12.0	4,500	78
MO.	2490	FD 37	H4	1348/1424	48:20N/46:39N	101:20/100:42	45	165	222	26.9	5,000	78
	2487	WP1326	NZ	1429/1518	47:03N/46:40N	100:17/102:30	50	160	222	13.7	3, 900	69
	2491	FD 38	H2	1429/1518	47:03N/46:40N	100:17/102:30	50	160	222	30.4	4, 200	75
	2488	WP1327	N3	1522/1622	46: 40N	101:45/102:00	55	155	221	14,0	7,000	116
	2492	FD 39	H3	1522/1622	46: 40N	101:45/102:00	55	155	221	30,5	7,800	117
	2489 2493	WP1328 FD40	N4 H4	1626/1726	46: 40N	101:15/101:15	60	135	221	9.8	11,800	196
	2494	FD41	H5	1626/1726 1730/1900	46: 40N 46: 40N/48: 20N	101:15/101:15	60 64.3	135 123	221 221	22.1	11,400	150
	2495	FD 42	H6	1903/2031	48: 15N/46:52N	100:20/102:39	64.6/69.7	110	218	25.4	11,400	216
	2173	F 13 46	по	1703/2031	40; 13(4) 40; 32(4	102;45/100;17	04. 6/07. /	110	210	18.3	14,600	209
705	2496	WE1584	N4	1514/1558	27:43N/33:03N	98:07	60	135	208	7.8	6, 200	12
LN	2497	WE1585	N2	1600/1647	33: 17N/38: 37N	98:07	60	135	210	8,0	9, 600	22
	2498	WE1586	N3	1649/1733	38:51N/44:11N	98:07	60	135	216	7.4	8,600	22
	2500	WC163	H4	1649/1733	38:51N/44:11N	98:07	60	135	216	16.6	12,000	14
	2499	WE1587	N4	1736/1820	44:25N/49:45N	98:07	60	135	216	7.4	11,000	18
	2501	WC164	HZ	1736/1820	44: 25N/49: 45N	98:07	60	135	216	16.8	12,000	20
	2502	W C165	Н3	1830/1914	49:45N/44:25N	98:07	64.5	123	219	12, 6	9, 500	24
	2503	W C166	H4	1917/2003	44:11N/38:51N	98:07	65	121	217	12,7	14, 900	18
	2504	W C167	H5	2006/2051	38: 37N/33: 17N	98:07	65	121	213	12.7	13, 300	20
	2505	W C168	Н6	2054/2137	33:03N/27:43N	98:07	65	121	211	12. 2	11,500	19
714	2506	WE1588	N1	1439/1524	27:43N/24:24N	98:07/94:05	60	135	206	7.9	6, 200	85
LS	2508	W C295	H1	1528/1618	24:09N/20:26N	93:46/89:37	60	135	203	20.2	7,100	10
	2507	WE1589	N2	1620/1716	20:16N/16:32N	89:26/85:35	60	135	204	10.0	4,800	8
	2509	W C296	H2	1620/1716	20:16N/16:32N	89:26/85:35	60	135	204	22,7	6, 300	8
3 Nov	ember 19	59 Mission	15		•							
718	2519	W C187	H1	1515/1542	27:43N/30:20N	98:07	41	170	216	24,6	≤ 230	خ
LN	2520	W C188	H2	1544/1609	30:31N/33:09N	98:07	41	170	215	22, 9	≤ 250	
												<
-14	2521	W C189	113	1611/1639				170	215	25.7	≤ 220	
<i>1</i> 414		W C189 W C190	H3	1611/1639	33:20N/36:15N	98:07	41	170 170	215 214	25, 7 24, 8	≤ 250 ≤ 220 ≤ 117	≤
<i>-</i> 11	2521 2522 2523	W C189 W C190 W C191		1641/1709	33:20N/36:15N 36:26N/39:01N	98:07 98:07	41 41	170	214	24, 8	≤ 117	<u>&lt;</u>
414	2522	WC190	H3 H4		33:20N/36:15N	98:07	41			24, 8 19, 3	≤ 117 ≤ 150	<u>&lt;</u>
<i>-</i>	2522 2523	WC190 WC191	H3 H4 H5	1641/1709 1712/1733	33:20N/36:15N 36:26N/39:01N 39:12N/41:46N	98: 07 98: 07 98: 07	41 41 41	170 170	214 214	24, 8	≤ 117 ≤ 150 ≤ 166	<u>&lt;</u> < <
214	2522 2523 2524	WC190 WC191 WC192	H3 H4 H5 H6	1641/1709 1712/1733 1736/1755	33:20N/36:15N 36:26N/39:01N 39:12N/41:46N 41:57N/43:42N	98: 07 98: 07 98: 07 98: 07	41 41 41 41	170 170 170	214 214 214	24, 8 19, 3 17, 5 13, 9	≤ 117 ≤ 150 ≤ 166 ≤ 910	<u> </u>
214	2522 2523 2524 2515	WC190 WC191 WC192 WP101	H3 H4 H5 H6 N1	1541/1709 1712/1733 1736/1755 1803/1841	33:20N/36:15N 36:26N/39:01N 39:12N/41:46N 41:57N/43:42N 43:42N/40:22N	98:07 98:07 98:07 98:07 98:07 98:07	41 41 41 41 45	170 170 170 165	214 214 214 209	24, 8 19, 3 17, 5	≤ 117 ≤ 150 ≤ 166	<u> </u>
2.14	2522 2523 2524 2515 2516	WC190 WC191 WC192 WP101 WP102	H3 H4 H5 H6 N1 N2	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931	33:20N/36:15N 36:26N/39:01N 39:12N/41:46N 41:57N/43:42N 43:42N/40:22N 40:10N/36:09N	98: 07 98: 07 98: 07 98: 07 98: 07 98: 07	41 41 41 41 45 45	170 170 170 165 165	214 214 214 209 208	24, 8 19, 3 17, 5 13, 9 17, 4	≤ 117 ≤ 150 ≤ 166 ≤ 910 ≤ 330	<u> </u>
714	2522 2523 2524 2515 2516 2517	WC190 WC191 WC192 WP101 WP102 WP103	H3 H4 H5 H6 N1 N2 N3	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019	33:20N/36:15N 36:26N/39:01N 39:12N/41:46N 41:57N/43:42N 43:42N/40:22N 40:10N/36:09N 35:57N/31:56N 31:44N/27:43N	98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07	41 41 41 41 45 45 45	170 170 170 165 165 165	214 214 214 209 208 207	24, 8 19, 3 17, 5 13, 9 17, 4 16, 2 16, 5	<ul> <li>117</li> <li>150</li> <li>166</li> <li>910</li> <li>330</li> <li>360</li> <li>139</li> </ul>	4 × × 4 N
714	2522 2523 2524 2515 2516 2517 2518	WC190 WC191 WC192 WP101 WP102 WP403 WP404	H3 H4 H5 H6 N1 N2 N3 N4	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107	33:20N/36:15N 36:26N/39:01N 39:12N/44:46N 41:57N/43:42N 43:42N/40:22N 40:10N/36:09N 35:57N/31:56N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	41 41 41 45 45 45 45/45	170 170 170 165 165 165	214 214 214 209 208 207 210	24, 8 19, 3 17, 5 13, 9 17, 4 16, 2 16, 5	<ul> <li>117</li> <li>150</li> <li>166</li> <li>910</li> <li>330</li> <li>360</li> <li>139</li> </ul>	4 × × 4 N
714	2522 2523 2524 2515 2516 2517 2518	WC190 WC191 WC192 WP101 WP102 WP103 WP104	H3 H4 H5 H6 N1 N2 N3 N4	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107	33:20N/36:15N 36:26N/39:01N 39:12N/41:46N 41:57N/43:42N 43:42N/40:22N 40:40N/36:09N 35:57N/31:56N 31:44N/27:43N 27:43N/32:37N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	41 41 41 45 45 45 45/45 45	170 170 170 165 165 165 165	214 214 214 209 208 207 210	24, 8 19, 3 17, 5 13, 9 17, 4 16, 2 16, 5	<ul> <li>117</li> <li>150</li> <li>166</li> <li>910</li> <li>330</li> <li>360</li> <li>139</li> <li>340</li> <li>510</li> </ul>	A A A A A A
714	2522 2523 2524 2515 2516 2517 2518 2525 2526	WC190 WC191 WC192 WP101 WP102 WP103 WP104 WP105 WP106	H3 H4 H5 H6 N1 N2 N3 N4	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107 1443/1526 1530/1614	33:20N/36:15N 36:26N/39:01N 36:26N/39:01N 41:57N/43:42N 43:42N/40:22N 40:10N/36:09N 35:57N/31:56N 31:44N/27:43N 27:43N/32:37N 32:50N/37:44N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07/97:07	41 41 41 45 45 45 45 45 45 50	170 170 170 165 165 165 165	214 214 214 209 208 207 210 201 202	24, 8 19, 3 17, 5 13, 9 17, 4 16, 2 16, 5	<pre>117 Y 150 Y 166 Y 910 Y 330 Y 360 Y 139 Y 340 Y 340 1,040</pre>	N
714	2522 2523 2524 2515 2516 2517 2518 2525 2526 2527	WC190 WC191 WC192 WP101 WP102 WP103 WP104 WP105 WP106 WP106	H3 H4 H5 H6 N1 N2 N3 N4 N1 N2	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107 1443/1526 1530/1614 1645/1702	33:20N/36:15N 36:26N/39:0N 39:12N/41:46N 41:57N/43:42N 43:42N/40:22N 40:10N/36:09N 35:57N/31:56N 31:44N/27:43N 32:50N/37:44N 37:56N/42:52N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07/97:07 98:07	41 41 41 45 45 45 45 50 50 50	170 170 170 165 165 165 165 160 160	214 214 214 209 208 207 210 201 202 205	24, 8 19, 3 17, 5 13, 9 17, 4 16, 2 16, 5 13, 6 13, 6	<ul> <li>117</li> <li>150</li> <li>166</li> <li>910</li> <li>330</li> <li>360</li> <li>139</li> <li>340</li> <li>510</li> </ul>	A A A A A A A A A A A A A A A A A A A
714	2522 2523 2524 2515 2516 2517 2518 2525 2526 2527 2529 2528 2530	W C190 W C191 W C192 W P101 W P102 W P103 W P105 W P106 W P107 W C205 W P108 W P108	H3 H4 H5 H6 N1 N2 N3 N4 N1 N2 N3 H1	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107 1443/1526 1530/1614 1615/1702 1614/1704	33:20N/36:15N 36:26N/39:01N 39:12N/41:46N 41:57N/43:42N 43:42N/40:22N 40:10N/36:09N 35:57N/31:56N 31:44N/27:43N 27:43N/32:37N 32:50N/37:44N 37:58N/42:52N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 97:07/98:07 98:07	41 41 41 45 45 45 45/45 45 50 50 50	170 170 170 165 165 165 165 160 160	214 214 214 209 208 207 210 201 202 205 205	24, 8 19, 3 17, 5 13, 9 17, 4 16, 2 16, 5 13, 6 14, 4 33, 7	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A A A A A A A A A
714	2522 2523 2524 2515 2516 2517 2518 2525 2526 2527 2529 2529 2530 2531	WC490 WC191 WC192 WP101 WP102 WP103 WP104 WP105 WP406 WP407 WC205 WP408 WC207 WC208	H3 H4 H5 H6 N1 N2 N3 N4 N1 N2 N3 H1 N4 H3 H4	1641/4709 1742/4733 1736/4755 1803/4841 1843/4931 1933/2019 2021/2107 1443/4526 1530/4614 1615/4702 1614/4704 1703/4750 1704/4750	33:20N/36:15N 36:26N/39:01N 39:12N/14:16N 41:57N/43:42N 40:10N/36:09N 35:57N/31:56N 31:44N/27:43N 27:43N/32:37N 32:50N/37:44N 37:58N/42:52N 43:06N/48:00N 43:20N/48:00N 43:20N/43:06N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 97:07/98:07 98:07 98:07 98:07	41 41 41 45 45 45/45 45 50 50 50 50	170 170 170 165 165 165 165 160 160 160 160	214 214 214 209 208 207 210 201 202 205 207	24, 8 19, 3 17, 5 13, 9 17, 4 16, 2 16, 5 13, 6 14, 4 33, 7 14, 0	Y 117 Y 1466 Y 910 Y 330 Y 340 Y 340 1,040 1,270 1,810	X
714	2522 2523 2524 2515 2516 2517 2518 2525 2526 2527 2529 2528 2530	W C190 W C191 W C192 W P101 W P102 W P103 W P105 W P106 W P107 W C205 W P108 W P108	H3 H4 H5 H6 N1 N2 N3 N4 N1 N2 N3 H1 N4 H3	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107 1443/1526 1530/1614 1615/1702 1644/1704 1703/1750 1704/1750	33;20N/36;15N 36;26N/39;04N/41;46N 39;12N/41;46N 41;57N/33;42N 43;42N/40;22N 40;10N/36;09N 35;57N/31;56N 31;44N/27;43N 32;50N/37;44N 37;56N/42;52N 37;56N/42;52N 43;06N/48;00N 43;20N/48;00N	98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 97: 07/98: 07 98: 07 98: 07 98: 07 98: 07 98: 07	41 41 41 45 45 45 45 45 50 50 50 50 50	170 170 170 165 165 165 165 160 160 160 160	214 214 214 209 208 207 210 201 202 205 205 207 207	24, 8 19, 3 17, 5 13, 9 16, 2 16, 5 13, 6 13, 6 14, 4 33, 7 14, 0 30, 4	<ul> <li>≤ 147</li> <li>≤ 150</li> <li>≤ 466</li> <li>≤ 940</li> <li>≤ 330</li> <li>≤ 360</li> <li>≤ 139</li> <li>≤ 540</li> <li>1,040</li> <li>1,270</li> <li>1,810</li> <li>1,690</li> </ul>	A A A A A
714	2522 2523 2524 2515 2516 2517 2518 2525 2526 2527 2529 2529 2530 2531	WC490 WC191 WC192 WP101 WP102 WP103 WP104 WP105 WP406 WP407 WC205 WP408 WC207 WC208	H3 H4 H5 H6 N1 N2 N3 N4 N1 N2 N3 H1 N4 H3 H4	1641/4709 1742/4733 1736/4755 1803/4841 1843/4931 1933/2019 2021/2107 1443/4526 1530/4614 1615/4702 1614/4704 1703/4750 1704/4750	33:20N/36:15N 36:26N/39:01N 39:12N/14:16N 41:57N/43:42N 40:10N/36:09N 35:57N/31:56N 31:44N/27:43N 27:43N/32:37N 32:50N/37:44N 37:58N/42:52N 43:06N/48:00N 43:20N/48:00N 43:20N/43:06N	98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 97: 07/98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07	41 41 41 45 45 45/45 45 50 50 50 50 50 50 50	170 170 165 165 165 165 160 160 160 160 160	214 214 209 208 207 210 201 202 205 207 207	24.8 19.3 17.5 13.9 17.4 16.2 16.5 13.6 14.4 33.7 14.0 30.4 21.9	<ul> <li>117</li> <li>150</li> <li>166</li> <li>166</li> <li>130</li> <li>1360</li> <li>139</li> <li>140</li> <li>150</li> <li>1040</li> <li>1,270</li> <li>1,810</li> <li>1,690</li> <li>1,200</li> </ul>	IA IA A A IA
714 LN	2522 2523 2524 2514 2516 2517 2518 2525 2526 2527 2529 2528 2530 2531 2532	WC490 WC191 WC192 WP101 WP102 WP103 WP104 WP105 WP105 WP107 WC205 WP108 WC207 WC205 WC209	H3 H4 H5 H6 N1 N2 N3 N4 N1 N2 N3 H1 N4 H5	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107 1443/1526 1530/1614 1615/1702 1614/1704 1703/1750 1703/1750 1703/1750	33;20N/36;15N 36;26N/39;14146N 39;12N/41;46N 41:57N/43;42N 40;20N/36;09N 35;57N/31;56N 31;44N/27;43N 32;50N/37;44N 37;56N/42;52N 37;56N/42;52N 43;06N/48;00N 48;00N/43;06N 42;52N/35;25N	98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 97: 07/98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07	41 41 41 45 45 45 45 50 50 50 50 50 50 55 55	170 170 170 165 165 165 160 160 160 160 150	214 214 214 209 208 207 210 201 202 205 207 207 207	24.8 19.3 17.5 13.9 17.4 16.2 16.5 13.6 14.4 33.7 14.0 30.4 21.9 35.5	<ul> <li>≤ 117</li> <li>≤ 150</li> <li>≤ 166</li> <li>≤ 940</li> <li>≤ 360</li> <li>≤ 139</li> <li>≤ 340</li> <li>≤ 540</li> <li>1,040</li> <li>1,270</li> <li>1,810</li> <li>1,690</li> <li>4,200</li> <li>3,500</li> <li>1,380</li> </ul>	ALA AL AL ALA ALA ALA ALA ALA ALA ALA A
714 LN 705	2522 2523 2524 2015 2516 2517 2518 2525 2527 2529 2528 2530 2531 2531 2532	WC190 WC191 WC192 WP101 WP102 WP103 WP104 WP105 WP106 WP107 WC205 WP108 WC205 WC209	H3 H4 H5 H6 N1 N2 N3 N4 N1 N2 N3 H1 N4 H3 H4 H5	1644/4709 1712/4733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107 1443/1526 1530/1614 1703/1750 1704/1750 1757/1839 1841/1948 1530/1629 1633/1733	33; 20N/36; 15N 36; 26N/39; 01N 36; 26N/39; 01N 41: 57N/43; 42N 43; 42N/40; 20N 35; 57N/31; 56N 31; 44N/27; 43N 27; 43N/32; 37N 37; 56N/42; 52N 43; 20N/48; 00N 43; 20N/48; 00N 42; 52N/35; 25N 29; 00N	98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 97: 07/98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07	41 41 41 45 45 45 45 50 50 50 50 50 50 55 55 55	170 170 170 165 165 165 160 160 160 160 150 150	214 214 209 208 207 210 201 202 205 205 207 207 207 207 207	24. 8 19. 3 17. 5 13. 9 17. 4 16. 2 16. 5 13. 6 13. 6 14. 4 33. 7 14. 0 30. 4 21. 9 35. 5	<ul> <li>≤ 147</li> <li>≤ 150</li> <li>≤ 166</li> <li>≤ 940</li> <li>≤ 350</li> <li>≤ 360</li> <li>≤ 139</li> <li>≤ 510</li> <li>1,040</li> <li>1,270</li> <li>1,810</li> <li>1,690</li> <li>4,200</li> <li>3,500</li> <li>1,380</li> <li>7,100</li> </ul>	<u> </u>
714 LN 705	2522 2523 2524 2515 2516 2517 2518 2525 2526 2527 2528 2530 2531 2532	WC490 WC191 WC192 WP101 WP102 WP103 WP105 WP106 WP105 WP106 WP407 WC205 WP408 WC207 WC208 WC209	H3 H4 H5 H6 N1 N2 N3 N4 N1 N2 N3 N4 H1 H3 H4 H3 H4 H5	1641/1709 1712/1733 1736/1755 1803/1841 1843/1931 1933/2019 2021/2107 1443/1526 1530/1614 1615/1702 1614/1704 1703/1750 1704/1750 1704/1750 1757/1839 1841/1948	33;20N/36;15N 36;26N/39;015N 36;26N/39;146N 41:57N/43;42N 43;42N/40;22N 40;10N/36;09N 35:57N/31;56N 31:44N/27;43N 37;58N/42;52N 37;58N/42;52N 37;58N/42;52N 43;20N/48;00N 43;20N/48;00N 43;20N/48;00N 42;52N/35;25N 29;00N	98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 97: 07/98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07	41 41 41 45 45 45 45 50 50 50 50 50 50 55 55	170 170 170 165 165 165 160 160 160 160 150	214 214 214 209 208 207 210 201 202 205 207 207 207 207	24.8 19.3 17.5 13.9 17.4 16.2 16.5 13.6 14.4 33.7 14.0 30.4 21.9 35.5	<ul> <li>≤ 117</li> <li>≤ 150</li> <li>≤ 166</li> <li>≤ 940</li> <li>≤ 360</li> <li>≤ 139</li> <li>≤ 340</li> <li>≤ 540</li> <li>1,040</li> <li>1,270</li> <li>1,810</li> <li>1,690</li> <li>4,200</li> <li>3,500</li> <li>1,380</li> </ul>	V V V V 1 V 1 V 2 2 2 2 2 2 3 3 5 7 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Table 4.2 (continued)

AC No.	HASP	Air Force	Filter	Tirne	Latitude	Longitude	Altitude	IAS	Temp.	103	l'otal	00 SCF
	No.	No.		(2)		(*W)	(1000 It.)	(Kt)	(°K)	SCF	Beta	Sr ⁹⁰
Nover	nber 195	9 Mission	16									
		-										
116	2533	WP1881	N1	1427/1527	50:17N/56:14N	102:31/106:57	55	155	215	14.4	8, 100	127
MN	2534	WP1882	N2	1528/1625	56:20N/61:05N	107:07/112:32	55	155	216	13,6	8,500	157
	2535	WP4883	N3	1627/1724	61:15N/66:17N	112:47/120:40	55	155	216	13.6	8,400	183
	2537	FD49	H1	1627/1724	61:15N/66:17N	112:47/120:40	55	155	216	29.7	11,400	175
	2536	WP1884	N4	1726/1822	66:28N/71:00N	121:00/132:30	55	155	215	13.4	7, 300	129
	2538	FD50	H2	1726/1822	66:28N/71:00N	121:00/132:30	55	155	215	29.4	10,700	160
	2539	FD51	H3	1825/1914	71:DON/66:33N	132:30/121:12	60	135	213	18.7	9,700	189
	2540	FD52	H4	1916/2007	66:21N/61:23N	120:49/112:58	60	135	214	19.5	9, 500	171
	2541	FD53	H5	2009/205B	61:11N/56:00N	112:38/106:45	60	135	215,	18.6	9, 900	167
	2542	FD54	H6	2400/2152	55:56N/50:17N	106: 31/102: 31	60.5	135	216	19.2	10, 300	189
17	2543	WP2185	Ni	1420/1516	50: 17N/55: 46N	102:31/106:30	59.1/64.5	126	216	7.6	8, 900	158
AN	2544	WP2186	N2	1518/1614	55:56N/61:05N	106:41/112:32	64.7/65.7	119	215	6.5	10,900	187
	2545	WP2187	N3	1616/1712	61:15N/66:17N	112:46/120:40	65,7/67	116	213	6. i	11,000	163
	2547	FD55	Hi	1616/1712	61:15N/66:17N	112:46/120:40	65.7/67	116	213	13,9	11,500	171
	2546		N4	1714/1815	66: 28N/71:00N							
	2548	WP2188				121:00/132:30	67/68.3	113	212	6, 2	10,500	161
		FD56	H2	1714/1815	66: 28N/71:00N	121:00/132:30	67/68.3	113	212	14, 1	10,900	189
	2549	FD 57	Н3	1819/1906	71:00N/66:33N	132:30/121:12	68.2/68.7	111	211	10.4	11,900	193
	2550	FD58	H4	1910/1958	66: 21N/61:25N	120:49/112:58	68.7/69.5	110	211	10.0	12, 300	197
	2554	FD 59	H5	2000/2047	61:10N/56:00N	112:39/106:44	69.4/69.3	110	213	9.6	14,000	199
	2552	FD 60	Н6	2049/2140	55:46N/50:17N	106:30/102:31	69.3/69.9	109	215	10. 1	14, 100	236
718	2553	WPii7	Ni	1513/1558	27: 43N/33:93N	98:07	63.9/64.8	118	211	5.5	9,800	172
LN	2554	WP448	N2	1602/1647	33: 17N/38: 37N	98:07	64.8/65.5	116	211	5, 2	10,400	187
	2555	WP119	N3	1649/1735	38:51N/44:11N	98:07	65.7/66.6	115	213	5.0	11,000	186
	2556	WP120	N4	1737/1825	44: 25N/49: 45N	98:07	66.7/67	114	216	4.8	11,400	188
	2558	WC302	HZ	1737/1825	44: 25N/49: 45N	98:07	66.7/67	114	216	11.0	12, 200	208
	2559	WC303	н3	1836/1921	49: 45N/44: 25N	98:07	66.5/67.9	113	216	10, 3	11,000	191
	2560	WC304	H4	1923/2012	44: 11N/38:51N	98:07	68.2/68.9	110	213	10. 4	11,800	230
	2561	WC305	H5	2014/2101	38: 37N/33: 17N	98:07	68.9/59.7	123	211	14.4	10,700	179
	2562	WC306	Н6	2103/2150	33:03N/27:43N	98:07	59.5/59.5	138	211	18.9	7,600	159
705	2563	WPI13	N1	1439/1523	27: 43N/24: 13N	98:07/93:51	63.3/64.4	123	211	5, B	7,700	143
LS	2564	WP114	N2	1525/1611	24:04N/20:26N	93:40/89:37	64.3/64.9	121	212	5.7	8,800	140
	2565	WP115	N3	1612/1659	20; 16N/16; 32N	89:26/85:35	64.9/65.7	120	212	5,6	7,800	128
	2567	WC277	H4	1612/1659	20: 16N/16: 32N	89:26/85:35	64,9/65.7	120	212	12.8	12,200	20
	2566	WP116	N4	1701/1748	16:22N/12:35N	85:24/81:43	65,6/66.3	118	211	5, 4	9, 100	144
	2568	WG278	112	1701/1748	16: 22N/12: 35N	85:24/81:43	65,6/66.3	118	211	12.3	12,300	193
	2569	WC279	Н3	1757/1842	12:35N/16:22N	81:43/85:24	65.8/67.2	117	211	11, 3	12,100	204
	2570	WC2B0	114	1844/1930	16: 32N/20: 16P.	85:35/89:26	67.3/68.1	114		11,0	12,700	208
	2571	WC281	H5	1932/2017	20:26N/24:04N	89:37/93:40	67.9/67.9	112		10.1	12,400	248
	2572	WC282	H6	2019/2103	24:13N/27:43N	93:51/98:07	68/68.5	111	211	9. 9	14, 200	24
Û Nave	ember 19	959 Mission	174									
718	2573	WP125	N1	1517/1604	27:43N/33:03N	98:07	59.8	135		8.4	9,000	15
LN	2574	WP126	NZ	1606/1654	33: 17N/38: 37N	98:07	60	135		8, 1	9, 300	15.
	2575	WP127	N3	1656/1742	38:51N/44:11N	98:07	60	135	215	7.8	8,700	13
	2577	FD037	H1	1656/1742	38:51N/44:11N	98:07	60	135	215	17.7	8,400	14
	2576	WP128	N4	1744/1832	44:25N/49:45N	98:07	60	135	217	7.9	7,000	11
	2578	FD038	112	1744/1832	44:25N/49:45N	98:07	60	135		17.8	11,500	17
	2579	FD039	H3	1841/1927	49: 45N/44: 25N	98:07	65	121		12.7	10, 300	16
	2580	FD040	H4	1929/2018	44:11N/38:58N	98:07	65. 2	121		13, 2	11, 400	16
	2581	FD041	H5	2020/2110	38:44N/33:00N	98:07	65.5	121		13.7	10, 600	18
	2582	FD042	H6	2112/2156	32:46N/27:43N	98:07	65.5	121		11.9	11,200	18
	2502		***									
714	2583	WP129	N1	1438/1523	27: 43N/24: 13N	98:07/93:51	60	135		8.0	8,000	12
LS	2584	WP130	N2	1525/1609	24:04N/20:26N	93:40/89:37	60	135		8, 1	5,800	10
	2585	WP131	N3	1611/1657	20:16N/16:32N	89:26/85:35	60	135		8.4	4,000	6
	2587	FD049	H1	1611/1657	20:16N/16:32N	89:26/85:35	60	135		19. 1	5, 100	7
	2586	WP132	N4	1659/1746	16: 22N/12: 35N	85:24/81:43	60	135		8,6	4,600	9
	2588	FD050	H2	1659/1746	16; 22N/12; 35N	85:24/81:43	60	135		19.4	4,800	Ė
	2589	FD051	H3	1754/1840	12: 35N/16:22N	81:43/85:24	65	121		12.8	13, 200	16
	2590	FD052	H4	1842/1927	16: 32N/20:08N	85: 35/89:17	65	121		12,5	9,800	13
	2591	FD053	115	1929/2019	20:16N/24:04N	89:26/93:40	65	125		13.9	10, 300	15
	2592	FD054	H6	2021/2110	24: 13N/27: 43N	93:51/98:07	65	121		13.5	11,200	17
	-375	- 0004	110		*** * *** * * * * * * * * * * * * * *	10,01170;01	23	167	. 41)	13.9	11,600	

Table 4,2 (continued)

No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	LAS	Temp.	103	dpm/40	
	No.	No.		(2)	<del></del>	(•.4)	(1000 ft.)	(Kt)	(*K)	SCF	Beta	Sr ⁹
Nove	mber 195	9 Mission 1	7B									
15	2597	M61	H1	1428/1511	50:17N/53:26N	102; 31/104; 35	45	165	215	33. 6	4, 200	7
(N	2593	WP2121	Ni.	1749/1829	68:00N/63:53N	124:15/1:6:37	55	155	211	9.9	8, 700	15
114	2594	WP2122	N2	1831/1910	63:40N/59:30N	116:16/117:33	55	155	212	9.5	9, 100	14
	2595	WP2123	N3	1912/1957	59: 18N/55:03N	110:18/105:47	55	155	213	10.9	5,800	11
	2595	WP2124	N4	1959/2041	54:49N/50:17N	105; 37/102; 31	54.5	155	213	10.3	8, 200	13
	-								,		-,	
16	25 78	WPL1140	N1	1355/1454	50:17N/55:51N	102:31/106:35	60	135	211	10, 1	7,000	14
IN	2599	WPL1141	NS	1501/1554	56:34N/61:13N	107:18/112:42	60	135	210	9.2	8, 300	14
	2600	WPL1142	N3	1557/1655	61:24N/66:25N	113:00/120:56	60	135	208	10.1	8, 900	17
	2602	M67	H1	1557/1655	61:24N/66:25N	113:00/120:56	60	135	208	23, 0	11, 300	18
	2601	WPL1143	N4	1656/1755	66:35N/71:00N	121:14/132:30	60	135	207	10.4	8,500	1.
	2603	M69	H3	1656/1755	66: 35N/71:00N	121:14/132:30	60	135	207	23.5	10, 100	17
	2604	M70	H4	1756/1846	71:00N/66:30N	132:30/121:07	64.8	121	204	15. 1	10,000	11
	2605	M71	H5	1849/1938	66:18N/61:24N	120:45/113:00	65	121 121	204 209	14.5	11,000	1
	2606	M72	116	1941/2033	61:11N/56:00N	112:38/106:45	65	121	409	14. 9	10,000	11
Nove	mber 195	9 Mission i	18A_									
18	2627	FD 139	H1	1514/1543	27:43N/30:20N	98:07	40	170	213	28, 0	≤ 200	<
N	2628	FD 140	H2	1546/1627	30: 31N/33:09N	98:07	40	170	212	39.6	± 144	•
.4	2629	FD 141	H3	1630/1701	33: 20N/35: 57N	98:07	40	170	212	30. 1	≤ 290	
	2630	FD 142	H4	1704/1735	36:08N/38:46N	98:07	41	170	211	28, 8	≤ 300	
	2631	FD 143	H5	1737/1810	38: 57N/41: 34N	98:07	44	165	210	27,1	≤ 210	
	2632	FD 144	H6	1813/1843	41: 45N/44: 23N	98:07	44	165	211	24.5	1,510	
	2623	WP137	N4	1850/1930	44: 23N/40: 22N	98:07	45	165	211	14.3		
	2624	WP138	N2	1932/2011	40: 10N/36:09N	98:07	45	165	209	14.1	1, 210 ≤ 330	
	2625	WP139	N3	2013/2052	35:57N/31:56N	98:07	45	165	209		≥ 530 ≤ 570	
	2626	WP139 WP140	N4	2013/2052	31:44N/27:43N	98:07	45	165	206	14, 1 14, 2	≤ 162	
	24.22	10224.00	***	444114834	29. 4221/22 2011	00.07	50	480	206	42.4	4.040	
05 N	2633 2634	WP133 WP134	N1 N2	1441/1526 1528/1615	27: 43N/32: 37N 32: 50N/37: 45N	98:07 98:07	50 50	159 160	208 209	13. 6 13. 9	1,010 2,200	
	2635	WP135	N3	1616/1705	37:58N/42:52N	98:07	50	160	211	14.7	3, 400	
	2637	FD115	H4	1616/1705	37:58N/42:52N	98:07	50	160	211	32, 3	4,000	
	2636	WP136	N4	1707/1754	43:05N/48:00N	98:07	50	160	214	13.6	6, 100	
	2638	FD117	H3	1709/1754	43:24N/48:00N	98:07	50	160	214	28. 9	7,400	•
	2639	FD118	H4	1800/1844	48:00N/43:05N	98:07	55	151	212	22,7	10,700	
	2640	FD119	H5	1846/1926	42:52N/37:58N	98:07	55	150	210	20,7	9, 500	
	2641	FD 120	H6	1928/2055	37:45N/27:43N	98:07	55	150	206	46, 1	3, 800	
Nov	ember 19	59 Mission	18B									
17	2611	M73	H1	1433/1502	50:17N/52:09N	102: 31/103: 42	30	175	216	26 6	≤ 400	
AN	2612	M74	H2	1504/1530	52: 15N/54:02N	103:49/105:03	30	175	216	35.5 31.8	≤ 900	
*14	2607	WPL1052	N1	1700/1730	61:30N/58:54N	113:05/109:48	30 35	173	215	14.4	1,590	
	2608	WPL1052	N2	1732/1802	58:44N/56:05N	109:38/106:48	35	173	214	15.0	2, 100	
	2609	WPL1053	N2 N3	1806/1834	55;55N/53:17N	106:38/104:30	35	173	215	13.7	1, 930	
	2610	WPL1055	N4	1836/1910	53:06N/49:56N	104:21/102:17	35	173	215	16.6	1, 830	
16	2617	M79	111	1400/1440	50: 17N/53: 10N	102:31/104:25	40	170	216	37.6	3, 300	
AN	2618	M80	HZ	1442/1522	53:49N/56:08N	104:31/106:49	40	170	216	37.6	3, 500	
	2619	M81	Н3	1523/1608	56:16N/59:05N	107:00/110:00	40	170	215	42, 4	2,500	
	2620	M82	H4	1610/1652	59:13N/61:49N	110:11/113:33	40	170	215	39.6	3, 200	
	2621	M83	115	1652/1739	61:58N/64:33N	113:46/117:37	40	170	214	44, 0	2,700	
	2622	M84	Н6	1740/1751	64:41N/65:25N	117:51/119:06	40	170	215	10.4	3, 900	
	2613	WP2181	N1	1757/1827	65:25N/63:06N	119:06/115:24	50	160		8.8	7,500	
	2614	WP2182	NZ	1828/1858	62:54N/58:53N	115:08/109:48	50	160		8.6	6,800	
	2615	WP2183	N3	1858/1947	58: 41N/54: 43N	109: 36/105: 35	50	160		14.4	6,600	
	2616	WP2184	N4	1947/2028	54: 31N/50: 17N	105:26/102:31	50	160	212	12.0	7,000	
	ember 19	959 Mission	19									
7 Nov			:- <u>-</u>				45/10					
	N 2642	FSSOW	HI	1649/1750	38:51N/44:41N	98:07	67768	115	210	14.5	12, 400	
714/1	N 2642	F55DW	н1	1649/1750	38:51N/44:11N	98:07	67/68	115		14, 5	12, 400	
714/L 705	2643	WP141	N1	1512/1557	27: 43N/24: 13N	98:07/+3:51	62. 5/64. 1	126	212	6. 1	9,400	
									212 211			

Table 4.2 (continued)

IC No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	1AS	Temp.	103	Total	ş _r 90
	No.	No,		(.2)	<del></del>	(*W)	(1000 ft,)	(K1)	(°K)	SCF	Beta	Şr.
Nove	nber 195	9 Mission 2	10									
16	2651	M85	H1	1426/1503	50:47N/53:43N	102:31/104:28	45	165	214	29. 1	3, 300	53
IN	2652	M86	H2	1505/1534	53:23N/56:16N	104:35/107:00	45	165	214	23, 2	2, 800	4
	2653	M87	H3	1538/1609	56:25N/59:11N	107:10/110:08	45	165	215	24. 2	3, 300	54
	2654	M88	H4	1612/1652	59:20N/62:13N	110:19/114:08	45	165	215	31.3	4, 600	6
	2655	M89	H5	1653/1726	62:23N/65:13N	114:23/118:45	45	165	216	25, 3	4, 500	7
	2656	M90	H6	1729/1802	65:23N/68:00N	119:02/124:15	45	165	218	25.5	6,000	9
	2647	WP1857	N4	1807/1847	68:00N/64:07N	124:15/116:55	55	155	214	9, 6	8, 500	14
	2648	WP1858	N2	18 <b>4</b> 9/1927	63:53N/59:44N	116:35/110:48	55	155	214	9. 2	9, 300	14
	2649	WP1859	N3	1930/2012	59:31N/55:09N	110:32/105:55	55	155	215	10. 1	7 <b>, 4</b> 00	11
	2650	WP1860	N4	2025/2056	53:23N/50:17N	104: 36/102: 31	55	155	214	7,5	8,000	12
17	2657	WP1777	N1	1356/1454	50:25N/55:40N	102:36/106:25	60	135	214	9.8	7,000	10
иN	2658	WP1778	N2	1456/1552	55:50N/61:34N	106: 36/113:08	60	135	214	9,6	9, 400	16
	2659	WP1779	N3	1553/1648	61:40N/66:22N	113:14/120:52	60	135	212	9.3	9, 300	15
	2660	WP1780	N4	1650/1746	66:33N/71:00N	121:15/132:30	60	135	212	9.5	8, 200	13
714	2661	WP149	N1	1520/1607	27:43N/33:03N	98:07	64.9/66	120	208	5.9	8,800	14
LN	2662	WP150	N2	1609/1655	33:17N/38:37N	98:07	66	118	209	5.4	10, 400	15
	2663	WP151	N3	1657/1743	38:51N/44:11N	98:07	66/67.1	116	209	5.2	10,400	19
	2665	FD7	Hi	1657/1743	38:51N/44:11N	98:07	66/67.1	116	209	11.8	11, 100	41
	2664	WP152	N4	1745/1835	44:25N/49:45N	98:07	67.1/67.6	114	209	5, 2	11, 900	17
	2666	FD8	H2	1745/1835	44: 25N/49: 45N	98:07	67.1/67.6	114	209	11.9	13,600	2.2
	2667	FD9	H3	1842/1928	49:45N/44:25N	98:07	67/68.5	113	208	11.0	13,000	2
	2668	FD 40	H4	1930/2017	44:11N/38:51N	98:07	68.8/69.1	110	207	10.1	12, 100	2
	2669	FD 11	H5	2019/2105	38: 37N/33: 17N	98:07	69.4/70.4	109	205	9.7	12,700	22
	2670	FD42	H6	2107/2153	33:03N/27:43N	98:07	70.4/71	107	205	9.2	14, 300	24
705	2671	WP145	N1	1444/1529	27: 43N/24: 13N	98:07/93:51	60	135	206	7.9	6, 100	
LS	2672	WP146	N2	1531/1616	24:04N/20:26N	93:40/89:37	60	135	205	8.0	6, 300	4
	2673	WP147	N3	1618/1704	20: 16N/16: 32N	89: 26/85: 35	60	135	204	8, 2	5, 100	
	2675	FD1	H4	1618/1704	20:16N/16:32N	89: 26/85: 35	60	135	204	18.4	5, 300	
	2674	WP148	N4	1706/1751	16: 22N/12: 35N	85: 24/81:43	60	135	203	C. 1	5,000	
	2676	FD3	H3	1800/1846	12: 35N/16: 22N	84: 43/85:24	65	121	202	13.7	9, 400	4
	2677	FD5	H5	1848/1935	16: 32N/20: 16N	85: 35/89: 26	65	121	205	13.8	8, 900	4
	2678	FD6	H6	1937/2022	20:26N/24:04N	89: 37/93:40	65.2	121	206	13.1	8, 400	17
4 Nov	ember 19	59 Mission	21A									
716	2683	M97	Hi	1447/1515	50:17N/51:18N	102: 31/103: 10	30	175	228	32.9	≤ 260	
MN	2684	M98	HZ	1517/1546	51:23N/52:21N	103:12/103:50	30	175	228	34.1	≤ 167	_
	2685	M99	H3	1549/1727	52:25N/55:35N	103:54/106:20	30	175	228	115,1	400	_
	2686	M100	H4	1729/1810	55: 42N/57: 24N	106:27/108:29	30	175	225	48.6	820	
	2687	M101	H5	1812/1842	57:50N/59:31N	108: 37/110: 32	30	175	225	35.6	960	
	2679	WP1705	N1	1844/1905	59: 31N/57: 52N	110: 32/108: 40	35	173	223	10, 2	1,660	
	2680	WP1706	NZ	1906/1926	57:40N/56:04N	108;28/106;45	35	173	223	9,5	≤ 1,450	
	2681	WP1707	N3	1927/2002	55: 54N/52: 42N	106:37/104:07	35	173	224	16.6	≤ 770	
	2682	WP1708	N4	2002/2026	52: 27N/50: 17N	103:55/102:31	35	173	225	11.3	≤ 610	
	2688	M102	<b>H</b> 6	1850/2026	59:00N/50:17N	109:55/102:31	35	173	224	103, 3	1, 190	
715	2693	M91	H4	1400/1420	50:17N/51:35N	102: 31/103: 20	39. 5	170	222	18.7	2, 600	
MN	2694	M92	H2	1422/1442	51:42N/53:00N	103:26/104:19	39.5	170		18,6	2, 900	
	2689	WP2117	N4	1447/1516	53:45N/54:56N	104;29/105,44	40	170		11.8	2, 600	
	2695	M93	н3	1447/1516	53: 15N/54:56N	104:29/105:44	40	170		26.7	2, 500	
	2690	WP2118	N2	1524/1540	54:56N/53:17N	105:44/104:30	50	160		4, 5	6, 600	
	2696	M94	H4	1524/1540	54:56N/53:17N	105:44/104:30	50	160		10.0	6, 800	,
	2691	WP2119	N3	1541/1556	53:04N/51:23N	104:22/103:13	50	160		4, 2	7, 600	
	2697	M95	H5	1541/1556	53:04N/51:23N	104:22/103:13		160		9. 4	7, 300	
	2692	WP2120	N4	1558/1624	51: 10N/48: 12N	103:06/101:15		160		7.3	6, 600	
	2698	M96	Н6	1558/1624	51:10N/48:12N	103:06/101:15		160		16.3	8, 100	
718	2703	FD 19	н1	1532/1554	27:43N/30:20N	98:07	40	170	217	20,6	≤ 550	
LN	2704	FD 20	н2	1557/1627	30:31N/32:59N	98:07	40	170		28, 2	≤ 103	
,	2705	FD21	H3	1632/1707	33:20N/33:57N	98:07	40	170		32.9	≤ 170	
	2706	FD22	H4	1710/1747	36:08N/38:46N	98:07	40	170		34, 2	≤ 920	
	2707	FD23	H5	1750/1831	38:57N/41:34N	98:07	40	170		38.4	2,000	
	2708	FD 24	116	1835/1900	41:53N/43:35N	98:07	40	170		23, 4	2, 200	
	2699	WP157	Ni	1907/1933	43:25N/40:22N	98:07	45	165		9.0	3, 200	
	2700	WP158	N2	1935/2007	40: 10N/36:09N	98:07	45	165		10.8	3.200 ≤ 970	
	2701	WP159	N2 N3	2010/2045	35:57N/31:56N	98:07	45	165		12.1	≥ 770 ≤ 290	
		WP160	N4				45				2 442	
	2702	# 5,700	N4.	2047/2125	31:44N/27:43N	98:07	90	165	211	13.7	≤ 167	

Trible 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	Total	000 SC
	No.	No.		(Z)		(*w)	(1000 ft.)	(Kt)	(*K)	SCF	Beta	Sr ⁹⁰
Nove	mber 195	9 Mission 2	1B									
	2709	WP153		1450/1537	27: 43N/32: 37N	98:07	50	160	201	14,6	< 240	
14 N	2709	WP153	N1 N2	1539/1627	27:43N/36:37N 32:50N/37:45N	98:07	50 50	160	201	14.0	≤ 240 ≤ 400	
14	2711	WP155	N3	1629/1720	37:58N/42:52N	98:07	50	160	209	15.3	1,660	2
	2713	FD 13	H1	1629/1720		98:07	50	160	209	33.7	1,950	3
	2712	WP156	N4	1722/1808	37:58N/42:52N 43:05N/48:00N	98:07	50	160	213	13.6	5, 100	8
	2714	FD 14	H2	1722/1808	43:05N/48:00N	98:07	50	160	213	30.0	6, 400	8
	2715	FD 15	H3	1817/1856	48:00N/43:05N	98:07	55	150	218	19.4	10,600	18
	2716	FD 16	H4	1858/1943	42:52N/37:58N	98:07	55	150	214	23, 1	5, 400	9
	2717	FD 17	H5	1945/2032	37:45N/32:50N	98:07	55	150	209	24.5	2,600	3
	2718	FD 18	H6	2034/2121	32:37N/27:43N	98:07	55	150	205	25, 1	6, 100	8
Dana	mber 19	59 Mission 2										
Dece	mper 19:	MISSION A	<u> </u>									
15	2719	WP2189	N1	1425/1520	50: 17N/55: 43N	102: 31/106: 26	55	155	218	13.0	6, 100	10
ſΝ	2720	WP2190	N2	1522/1616	55:54N/61:05N	106:38/112-30	55	155	221	12.6	8,000	13
	2721	WP2191	N3	1618/1714	61:16N/66:20N	112:46/120:46	55	155	222	13.0	6, 700	12
	2723	M109	Hi	1618/1714	61:16N/66:20N	112:46/120:46	55	155	222	48, 4	2, 700	10
	2722	WP2192	N4	1716/1813	66:31N/71:00N	121:09/132:30	55	155	222	13.2	8, 600	1
	2724	M110	H2	1716/1813	66:31N/71:00N	121:09/132:30	55	155	222	28.9	10,400	1
	2725	Mili	H3	1817/1908	71:00N/66:33N	132:30/121:11	60	135	222	18.6	10,800	1
	2726	M112	H4	1910/2000	66:22N/61:26N	120:48/113:00	60	135	222	18.3	10, 900	1
	2727	M113	H5	2002/2051	61:13N/55:54N	112:42/106:38	60	135	220	18.1	10, 200	1
	2728	M114	Н6	2053/2145	55:43N/50:17N	106:26/102:31	60	135	218	19.4	10,000	49
16	2729	WP1369	Ni	1356/1449	50:17N/55:43N	102:31/106:26	59.6/63.9	124	218	6.9	8,800	1
N	2730	WP1370	N2	1449/1546	55;54N/61;05N	106:38/112:30	63,9/65.5	121	219	6.8	9,700	1
	2731	WP1371	N3	1547/1645	61:16N/66:13N	112:46/120:32	65.5/66.3	118	221	6.3	10,200	1
	2733	M115	Hi	1547/1645	61:16N/66:13N	112:46/120:32	65.5/66.3	118	221	14.4	12, 300	1
	2732	WP1372	N4	1646/1740	66:24N/71:00N	120:54/132:30	66.3/67.3	114	222	5.3	10, 400	1
	2734	M116	HZ	1646/1740	66:24N/71:00N	120:54/132:30	66.3/67.3	114	222	12.3	14, 400	2
	2735	M117	H3	1749/1836	71:00N/66:31N	132:30/121:09	67.3/67.9	113	222	10.0	11, 100	1
	2736	M118	H4	1837/1928	66: 20N/61: 24N	120:46/112:58	67.9/68.9	111	221	10.6	13, 200	2
	2737	M119	H5	1931/2029	61:11N/56:00N	112:40/106:45	68.9/69.6	110	219	11.6	13,000	2
	2738	M120	H6	2030/2121	55: 47N/50:70N	106: 31/102: 31	69.7/70.8	108	218	9.4	13,600	2
18	2740	FD 87	Hi	1245/1343	18:30N	67:08	55.1/56.8	150	195	32.8	1,220	
0	2741	FD 88	HZ	1345/1444	18; 30N	67;08	59,5/60,6	134	204	23, 5	5,200	1
	2742	FD 89	Н3	1448/1618	18: 30N	67:08	63.8/66	121	211	25. 2	11,000	2
	2743	FD 90	H4	1624/1804	18:30N	67:08	67.1/68.6	117	213	23, 5	10, 300	2
	2739	WP1801	Ni	1805/1944	18;30N	67:08	68.6/68.9	110	215	8.7	10,500	1
	2744	FD 91	H5	1805/1944	18:30N	67:08	68.6/68.9	110	215	19.7	14,000	1
14	2745	WP1813	N1	1234/1324	15:00N/09:25N	67:00	60	135	204	9.0	4, 100	
s	2746	WP1814	NZ	1326/1415	09: 11N/03: 37N	67:00	60	135	204	8.7	3, 300	
	2747	WP1815	N3	1417/1507	03:23N/02:11 S	67:00	60	135	204	9.0	3,700	
	2749	FD 84	H1	1417/1507	03:23N/02:11 S	67:00	60	135	204	20, 3	4,800	
	2748 2750	WP1816	N4	1510/1558	02: 32 5/08:00 5	67:00	60	135	203	8.7	2,900	
		FD 82	H2	1510/1558	02: 32 S/08:00 S	67:00	60	135	203	19.6	2,800	
	2751	FD83 FD84	H3	1605/1653	08:00 S/02:25 S	67:00	65	121	209	13.7	6,000	1
	2752 2753	FD 85	114 H5	1659/1745	01:50 S/03:23N	67:00	65	121	209 210	13.2	7.400	1
	2754	FD86	нs Н6	17 <b>48/</b> 1836 1839/1926	03:37N/09:11N 09:25N/15:00N	67:00 67:00	65 65	121	211	13, 5 13, 3	8,700 9,900	1
05	2755	WP1817	Ní	1204/1254	15:00N/09:25N	67:00	64, 4/65, 1	122	211	6.4	8, 200	1
RS	2756	WP1818	N2	1256/1345	09:11N/03:37N	67:00	65/65.8	120	210	5.9	8, 200	i
	2757	WP1819	N3	1347/1435	03:23N/02:11 S	67:00	65.8/66.3	118	209	5, 6	8,000	1
	2759	FD75	H1	1347/1435	03:23N/02:11 S	67:00	65.8/66.3	118	209	12.8	10,700	- 1
	2758	WP1820	N4	1437/1526	02:25 8/08:00 8	67:00	66. 4/66. 4	117	210	5. 4	7, 900	4
	2760	FD76	HZ	1437/1526	02:25 S/08:00 S	67:00	66. 4/66. 4	117	210	12. 3	8,800	- 1
	2761	FD77	113	1532/1623	08:00 S/02:25 S	67:00	65.9/67.2	117	209	13.2	8,700	- 1
	2762	FD78	H4	1625/1714	02:11 S/03:23N	67:00	67. 2/68, 4	113	211	11. 1	12, 500	ž
							011 m1001 T			. 14		- 4
	2763	FD79	H5	1716/1803	03:37N/09:11N	67:00	68.4/69	111	213	9.8	13, 000	- 4

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	LAS	Temp.	1.03	dpm/10	
	No,	No.		(2)		(°,\v)	(1000 ft.)	(Kt)	(·K)	SCF	Beta	Sr 90
Dece	niber 195	59 Missian 2	23									
				4412 (450.)	CO. 4751 (54. 335)	102:31/104:34	46	47.5	24.4	37.0	4 040	
15	2769 2770	M121	H1	1427/1503	50:17N/53:22N	104:41/107:11	45	165	214	27. 9	1,940	21
N N	2771	M122 M123	HZ	1505/1540 1542/1618	53:31N/56:30N	107:22/110:30	45 45	165	217	26.8	3,000	6
			H3		56: 39N/59: 30N			165	219	27.7	5,700	8
	2772	M124	H4	1620/1654	59:39N/62:26N	110:38/114:30	45 45	165	221	25, 9	5,400	8
	2773 2774	M125	H5	1656/1730	62:38N/65:21N	114:41/119:00	45 45	165	222	25.8	6,500	11
		M126	H6	1733/1807	65:30N/68:00N	119:15/124:15		165	220	26,0	6,600	10
	2765	WP1313	N1	1812/1853	68:00N/64:00N	124:15/116:45	55	155	220	9.6	7,800	14
	2766	WP1214	N2	1855/1937	63:48N/59:37N	116:27/110:38	55	155	222	9.7	9,000	16
	2767	WP1215	N3	1940/2023	59:25N/55:04N	110:23/105:49	55	155	221	10.0	7,400	11
	2768	WP1216	N4	2025/2107	54: 48N/50: 17N	105: 35/102: 31	55	155	217	10.0	5,800	9
716	2775	WP1961	141	1358/1452	50:17N/55:55N	102: 31/106: 38	60	135	217	9.0	9,500	13
MN	2776	WP1962	N2	1456/1549	56:08N/61:26N	106:52/113:00	60	135	219	8,7	9,800	14
	2777	WP1963	N3	1552/1648	61:36N/66:28N	113:15/121:00	60	135	219	9, 3	8,900	15
	2779	M127	Hi	1552/1648	61:36N/66:28N	113:15/121:00	60	135	219	21.0	9, 300	15
	2778	WP1964	N4	1653/1745	66:38N/71:00N	121:20/132:30	60	135	218	8.6	8,400	14
	2780	M128	H2	1653/1745	66:38N/71:00N	121:20/132:30	60	135	218	19.4	10,100	17
	2781	M129	Н3	1750/1841	71:00N/66:24N	132:30/120:55	65	121	215	14, 1	10, 300	17
	2782	M130	H4	1843/1927	66:13N/61:13N	120:35/112:42	65. 1	121	217	12,1	13, 400	17
	2783	Mi3i	H5	1930/2019	61:00N/55:53N	112:25/106:37	65. Z	121	218	13, 1	11,500	2
	2784	M132	H6	2030/2114	55:16N/50:17N	106:00/102:31	65.2	121	217	12.0	10,300	2
714	2785	WE1684	N1	1234/1327	15:00N/09:25N	67:00	60	135	202	9,6	2 400	
RS	2786	WE1685	N2	1329/1419	09:11N/03:37N	67:00					3, 100	•
RS	2787	WE1686	N2 N3	1421/1512	03:23N/02:118	67:00	60 60	135	202	9.1	2,500	•
								135	202	9, 2	3, 100	•
	2789	FD 105	H1	1421/1512	03:23N/02:115	67:00	60	135	202	21.0	2,700	
	2788	WE1687	N4	1514/1603	02:25 5/08:00 5	67:00	60	1 35	202	8.8	2,300	
	2790	FD 106	HZ	1514/1603	02:25 8/08:00 5	67:00	60	135	202	19.9	3,000	
	2791	FD 107	Н3	1611/1659	08:00 S/02:25 S	67:00	65	121	207	13.9	7,000	10
718	2792	WE1680	N1	1205/1257	15:07N/09:25N	67:00	65/65.8	119	207	6, 3	8, 100	1
RS	2793	WE1681	N2	1259/1348	09:11N/03:37N	67:00	65,7/66,9	116	206	5.6	8,700	1
	2794	WE1682	N3	1350/1439	03:23N/02:115	67:00	66,8/67,5	115	206	5, 4	7,900	1
	2796	FD 99	H1	1350/1439	03:23N/02:115	67; QD	66.8/67.5	115	206	12, 3	7,600	1
	2795	WE1683	N4	1441/1529	02:25 5/08:00 5	67:00	67.4/68	113	210	4.9	8, 300	1
	2797	FD 101	Н3	1441/1529	02:25 S/08:00 S	67:00	67.4/68	113	210	11.3	9, 300	1
	2798	FD 102	H4	1534/1622	08:00 S/02:25 S	67;00	67.9/68.6	112	213	10.7	10, 900	1
	2799	FD 103	115	1624/1713	02:11 S/03:23N	67:00	68.6/69.5	110	212	10, 2	10, 300	1
	2800	FD 104	Н6	1716/1745	03:37N/07:00N	67:00	69, 5	108		5.9	13,500	2
			3.1.									
8 Dec	ember 19	959 Mission	24A									
714	2806	WE203	N1	1850/1928	44:23N/40:22N	98:07	45	165		13.9	2,000	
LN	2807	WE202	N2	1931/2012	40:10N/36:00N	98:07	45	165	211	14.6	1,570	
	2808	WE201	N3	2012/2055	35:57N/31:56N	98:07	45	165	212	15.3	≤ 851	
705	2811	WE208	N1	1452/1539	· 27:43N/32:37N	98:07	50	160	211	13,9	≤ 660	
LN	2812	WE209	N2	1541/1629	32:50N/37:45N	98:07	50	160		14.1	1,070	
4	2813	WE210	N3	1631/1722	37:58N/42:52N	98:07	50	160		15. 2	3, 400	
	2815	FD 312	111	1631/1722	37:58N/42:52N	98:07	50	160		33, 5	3, 600	
	2814	WE211	N4	1724/1814	43:05N/48:00N	98:07	50	160				
	2816	FD 313	H2	1724/1814	43:05N/48:00N	98:07	50			14.9	5, 400	
	2817		H2 H3					160		32.8	5, 800	1
		FD 314		1820/1902	48:00N/43:05N	98:07	55. 5	150		21.3	10, 700	1
	2818	FD 315	H4	1904/1946	42:52N/37:58N	98:07	55.5	150		21.1	6,600	•
	2819 2820	FD 316 FD 317	Н5 Н6	1948/2032 2035/2119	37:45N/32:50N 32:37N/27:43N	98:07 98:07	55, 5 55, 5	150 150		22. 3 22. 6	6,000 4,700	
	6060	E LO JII	110	2033/4117	2012(14/81/12)4	70,01	331 7	130	209		4, 100	
718	2801	FD 306	H4	1350/1450	29: 29N	99:17	55	150		31.5	4, 100	
LO	2802	FD 307	HZ	1457/1556	29: 29N	99:17	60	1 3 5		23.3	6, 300	
	2803	FD 308	113	1603/1732	29: 29N	99:17	65	121	210	25, 3	9, 300	
	4804	FD 309	H4	1742/1921	29: 29N	99:17	68/68.7	112	211	22, 2	10,900	1
	2805	FD 310	115	1926/2105	29: 29N	99:17	69, 2/71	108		19.5	13, 200	1

Table 4,2 (continued)

				<b></b> .				***		3		1000 SCF
AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude ("W)	Alkitude (1000 ft.)	IAS (Kt)	Temp. (°K)	10 ³ SGF	Total Beta	Sr ⁹⁰
	mber 1959	Minaton 2	AB.									
716 MN	2825 2821 2822 2823 2824	M139 WP1661 WP1662 WP1663 WP1664	H! N1 N2 N3 N4	1433/1507 1697/1732 1733/1813 1814/1840 1842/1907	50:17N/52:13N 61:30N/53:49N 55:39N/50:16N 55:07N/52:49N 52:36N/50:17N	102:31/103:46 113:05/109:42 109:30/105:02 105:54/104:10 104:02/102:31	30 35 35 35 35	175 173 173 173 173	219 218 318 218 218	41, 1 16, 6 19, 3 12, 8 12, 1	< 139 T, 300 1, 190 < 940 ₹ 480	3 19 19 13 4
715 MN	2830 2831 2832 2833 2634 2835 2826 2827 2828 2829	M133 M134 M135 M136 M137 M138 WP1989 WP1990 WP1991 WP1991	H1 H2 H3 H4 H5 H6 N1 N2 N3	1357/1438 1441/1518 1521/1606 1608/1647 1649/1724 1727/1802 1805/1846 1849/1928 1930/2010 2012/2054	50:17N/53:13N 53:22N/56:11N 56:20N/59:00N 59:09N/61:44N 61:53N/64:23N 64:31N/67:00N 67:00N/63:14N 63:02N/59:00N 63:02N/59:00N 63:02N/59:01N	102:31/104:28 104:35/109:55 107:03/109:55 110:05/113:25 113:37/117:21 117:37/122:00 122:00/109:55 109:39/105:40 105:30/102:31	40 40 40 40 40 50 50 50	170 170 170 170 170 170 160 160 160	217 219 219 220 220 220 218 217 216 215	38.4 34.4 41.8 36.1 32.4 11.7 11.2 11.2	1, 330 1, 980 2, 100 2, 900 3, 300 6, 700 6, 100 5, 300 2, 900	28 38 35 49 58 73 137 124 83
10 Dece	mber 195	9 Mission 2	5.A									
718 LN	2843 2847 2844 2845 2846 2848 2849 2850 2851 2852	WE00220 FD318 WE00221 WE00222 WE00223 FD319 FD320 FD321 FD322 FD322 FD322	N1 H1 N2 N3 N4 H2 H3 H4 H5	1647/1732 1647/1732 1734/1822 1824/1915 1917/2009 1917/2009 2016/2059 2101/2145 2147/2232 2234/2316	27:43N/33:03N 27:43N/33:03N 33:17N/38:37N 38:51N/44:11N 44:25N/49:45N 49:45N/49:45N 49:45N/44:25N 48:37N/33:17N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	64/65.1 64/65.1 65.1/65.9 65.9/66.7 66.7/67.1 66.7/67.1 66.8/68.2 68.5/68.9 68.9/69.7	121 121 119 117 115 115 115 111 110	210 211 213 214 214 214 214 213 211	5.6 12.8 5.7 5.4 12.4 7.8 9.2 9.4	8, 400 9, 200 9, 600 14, 100 12, 300 13, 700 13, 600 11, 500 11, 500	165 175 187 217 183 199 216 237 223
705 LS	2836 2837 2838 2840 2839 2841 2842	WE00216 WE00217 WE00218 FD330 WE00219 FD333 FD334	N1 N2 N3 H1 N4 H4 H5	1659/1743 1745/1830 1832/1915 1832/1915 1917/2002 2012/2059 2149/2233	27:43N/24:13N 24:04N/20:26N 20:16N/16:32N 20:16N/16:32N 16:22N/12:35N 12:35N/16:22N 20:26N/24:04N	98:07/93:51 93:40/89:37 89:26/85:35 89:26/85:35 85:24/81:43 81:43/85:24 89:37/93:40	63.4/65 65/65.8 65.8/66.2 65.8/66.2 66.2/66.5 66.2/67 68/69	123 121 120 120 118 116	208 207 206 206 206 206 206 207	5.9 5.7 5.2 11.9 5.3 12.1	6, 400 7, 800 8, 400 8, 200 8, 300 9, 200 9, 000	109 144 120 141 149 173 153
11 Dece	mber 195	9 Mission Z	5B									
715 MN	2853 2854 2855 2857 2856 2858 2859 2860 2861 2862	WP2093 WP2094 WP2095 M145 WP2096 M146 M147 M148 M149 M150	N1 N2 N3 H1 N4 H2 H3 H4 H5 H6	1425/1524 1525/1618 1618/1714 1618/1714 1715/1814 1715/1814 1823/1916 1916/2001 2002/2052 2053/2145	50:17N/55:46N 55:56N/60:58N 61:10N/66:16N 61:10N/66:16N 66:28N/71:00N 66:28N/71:00N 71:00N/66:39N 66:28N/61:34N 61:21N/56:06N 55:53N/50:17N	102;31/106;30 106;40/112;22 112;37/120;37 112;37/120;37 121;00/132;30 121;00/132;30 132;30/121;25 121;00/113;13 112;54/106;51 106;38/102;31	55 55 55 55 55 55 60 60 60	155 155 155 155 155 155 135 135	215 216 217 217 221 221 219 216 214 213	14. 2 12. 7 13. 2 28. 8 13. 7 30. 0 19. 5 17. 0 19. 1 19. 7	4, 700 5, 700 7, 100 8, 500 7, 200 8, 900 10, 500 10, 400 11, 100	92 109 150 161 136 163 203 199 179 168
716 MN	2863 2864 2865 2867 2866 2868 2869 2870 2871 2872	WP1373 WP1374 WP1375 M151 WP1376 M152 M153 M154 M155 M156	N1 N2 N3 H1 N4 H2 H3 H4 H5	1356/1455 1457/1552 1554/1652 1554/1652 1654/1753 1654/1753 1757/1843 1846/1930 1932/2016 2019/2105	50:17N/55:54N 56:05N/61:12N 61:23N/66:23N 61:23N/66:23N 66:32N/71:00N 71:00N/66:32N 66:20N/61:23N 61:10N/56:00N 55:46N/50:17N	102:31/106:38 106:#9/112:41 112:56/120:50 112:56/120:50 121:10/132:30 121:10/132:30 132:30/121:10 120:47/112:56 112:38/106:45 106:30/102:30	50.4/64 63.9/64.9 64.9/65.9 64.9/65.9 66.1/66.4 66.4/67 67/68.8 68.8/69.5 69.6/70.4	126 121 119 119 118 118 116 113	211 212 215 215 217 217 217 215 212 211	8, 3 6, 9 6, 8 15, 5 6, 5 14, 6 11, 0 10, 2 9, 3 9, 3	9, 300 9, 300 10, 600 11, 400 12, 800 15, 600 15, 100 12, 900 19, 100	142 166 166 197 166 202 227 212 208 234
15 Dece	ember A	dission 26A										
716 MN	2877 2878 2879 2880 2881 2882 2873 2874 2875 2876	M157 M158 M159 M160 M161 M162 WP1653 WP1654 WP1655 WP1656	H1 H2 H3 H4 H5 H6 N1 N2 N3	1417/1454 1459/1532 1535/1609 1611/1646 1648/1723 1726/1801 1805/1851 1854/1936 1938/2012 2020/2110	50:17N/53:23N 53:33N/56:30N 56:40N/59:27N 51:37N/62:18N 62:28N/65:10N 65:20N/68:00N 68:00N/64:00N 63:47N/59:37N 59:24N/55:40N 54:47N/49:18N	102:31/104:34 104:43/107:12 107:22/110:25 110:38/114:15 114:30/118:42 118:56/124:15 116:28/110:38 110:23/106:15 105:42/101:40	45 45 45 45 45 55 55,5 55,5	165 165 165 165 165 165 155 155	220 222 223 224 224 225 225 223 221	28.3 25.0 25.7 25.9 26.1 10.5 9.7 7.8 11.6	2,800 3,400 3,600 3,700 4,800 4,100 10,100 8,400 7,000 6,400	50 61 53 51 67 41 144 133 122
?15 MN	2883 2884 2885 2886	WP1345 WP1346 WP1347 WP1348	N1 N2 N3 N4	1409/1459 1459/1607 1607/1656 1657/1750	50:17N/56:03N 56:14N/61:23N 61:43N/66:27N 66:38N/71:00N	102:31/106:45 106:58/112:57 113:11/121:00 121:21/132:30	60 60 60, 2 60, 5	135 135 135 135	218 222 223 225	8,3 11,0 7,8 8,3	6,500 9,300 10,000 10,700	133 194 173 211

Table 4, 2 (continued)

											dpm/	1000 SCF
AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (*W')	Altitude (1000 ft.)	iAS (Kt)	Temp, (°K)	10 ³ -	Total Beta	Sr ⁹⁰
16 Decer	nber 1959	Mission 26	.8				- r. r r.					
718 LN	2887 2888 2889 2891 2890 2892 2893 2894 2895 2896	WE228 WE229 WE230 FD348 WE231 FD349 FD350 FD351 FD352 FD353	N1 112 N3 H1 N4 H2 H3 H4 H5	1519/1609 1611/1657 1659/1747 1659/1747 1749/1837 1749/1837 1846/1935 1937/2022 2025/2108 2110/2202	27:43N/3::03N 33:17N/38:37N 33:51N/44:11N 38:51N/44:11N 44:25N/49:45N 44:25N/49:45N 44:25N/44:25N 44:11N/38:51N 38:37N/33:17N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	59, 5 59, 5 59, 5 59, 5 59, 5 65, 2 65, 2 65, 2	135 135 135 135 135 135 120 121 120 121	210 212 215 215 216 216 216 216 215 212 210	8, 7 7, 9 8, 2 18, 7 8, 0 18, 2 13, 1 12, 3 12, 0 14, 7	6,600 6,900 9,200 9,000 9,200 7,900 12,000 11,100 10,700 9,800	115 134 146 171 151 157 208 184 193 139
714 LS	2897 2898 2899	WE232 WE233 WE234	N1 N2 N3	1452/1531 1533/1624 1626/1717	27:43N/24:13N 24:04N/20:26N 20:16N/16:32N	98:07/93:51 93:40/89:37 89:26/85:35	60 60 60	135 135 135	207 203 200	6, 9 9, 3 9, 3	5,700 3,000 1,970	95 70 32
17 Dece	mber 195	9 Mission	27A									
715 MN	2904 2905 2906 2907 2908 2909 2900 2901 2702 2903	M163 M164 M165 M166 M167 M168 WP1710 WP1710 WP1711 WP1711	H1 H2 H3 H4 H5 H6 N1 N2 N3	1423/1458 1501/1536 1538/1614 1616/1700 1702/1734 1738/1809 1814/1859 1904/1949 1951/2037 2042/2116	50;17N/53;44N 53;55N/57;11N 57;21N/60;38N 60;48N/64;18N 64;28N/67;03N 67;12N/69;52N 69;52N/65;38N 65;08N/60;45N 50;33N/55;35N 55;11N/50;17N	102:31/104:49 104:58/107:53 108:05/111:55 112:07/117:08 117:31/122:08 122:27/129:00 129:00/119:30 118:00/112:05 111:48/106:20 105:56/102:31	50 50 50 50 50 55 55 55 55	160 160 160 160 160 150 155 155	224 225 227 227 227 227 228 228 228 225	21.5 21.4 21.8 26.6 19.4 19.1 10.2 10.0 10.3 7.7	6, 200 6, 000 5, 700 7, 100 7, 200 9, 100 8, 200 7, 700 8, 800	126 121 94 113 148 184 148 158 141
716 MN	2914 2915 2916 2917 2918 2919 2910 2911 2912 2913	M169 M170 M171 M172 M173 M174 WP1905 WP1906 WP1907 WP1908	H1 H2 H3 H4 H5 H6 N1 N2 N3 N4	1400/1437 1438/1513 1514/1552 1553/1629 1631/1707 1708/1745 1753/1841 1843/1932 1934/2027 2029/2111	50:17N/54:00 N 54:12N/57:40 N 57:50N/51:22N 61:32N/64:47 N 64:57N/68:05 N 68:25N/71:00N 71:00N/66:28N 66:16N/61:24 N 61:11N/55:19 N 55:05N/50:17 N	102:31/105:02 105:10/108:26 108:37/12:53 113:09/118:02 118:20/124:24 124:45/132:30 132:30/121:01 120:37/112:57 112:42/106:03 105:49/102:31	59.5 60 60 60.5 60.5 63/67 67/67.5 67,5/69	135 135 135 135 135 135 121 114 112	220 221 222 223 225 225 225 224 223 219	13, 8 12, 9 13, 9 13, 1 12, 7 13, 1 5, 5 4, 7 4, 8 3, 6	9, 700 11, 300 10, 600 14, 200 14, 700 15, 400 11, 300 14, 600 16, 200 16, 400	153 213 220 212 220 230 182 180 207 231
18 Decer	mber 1959	Mission 2	B									
718 LN	2934 2935 2936 2937 2938 2939 2930 2931 2932 2933	FD354 FD355 FD356 FD357 FD358 FD359 236 237 238	H1 H2 H3 H4 H5 H6 N1 N2 N3	1521/1551 1553/1625 1628/1659 1702/1733 1736/1808 1811/1839 1850/1927 1929/2008 2011/2049 2051/2129	27:43N/30:20N 30:31N/33:09N 33:20N/35:57N 36:08N/38:46N 38:57N/41:34N 41:45N/42:23N 44:23N/40:22N 40:10N/36:09N 35:57N/31:56N 31:44N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	40 40 40 40 40 40 45 45 45	168 169 170 171 171 170 165 166 165	220 218 218 214 214 213 210 211 216 213	27.3 29.6 28.9 29.6 31.0 26.6 13.5 13.9 13.3	V V V V S S S S S S S S S S S S S S S S	4 2 9 14 17 22 3 < 1 < 1 < 2
705 LN	2921 2922 2923 2925 2924 2926 2927 2928 2929	247 246 245 FD360 244 FD362 FD363 FD364 FD365	N1 N2 N3 H1 N4 H3 H4 H15	1448/1539 1541/1630 1631/1721 1631/1721 1723/1811 1723/1811 1818/1859 1906/1942 1945/2025	27:43N/32:37N 32:50N/37:45N 37:58N/42:52N 37:58N/42:52N 43:05N/48:00N 43:05N/48:00N 48:00N/43:05N 42:02N/37:56N 37:45N/32:50N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	50 50 50 50 50 55,5 55,5	160 163 163 163 162 162 151 151	210 211 210 210 212 212 212 212 211	15. 2 14. 8 15. 3 33. 6 14. 4 31. 6 20. 8 18. 5 20. 4	380 470 750 940 1, 680 2, 400 6, 400 2, 900 1, 660	5 7 13 15 29 36 108 57 78
718	2941	9 Mission 2 WE252	NI NI	1502/1545	27;43N/24;13N	98:07/93:51	(3 E14E 2	121	208	E 4	9 700	161
LS	2941 2943 2945 2944 2946 2947 2948 2949 2950	WE253 WE254 FD372 WE255 FD373 FD374 FD376 FD377	N1 N2 N3 H1 N4 H2 H3 H4 H5	1547/1545 1547/1720 1637/1720 1723/1811 1723/1811 1818/1905 1914/1953 1956/2043 2045/2132	24:04N/20:26N 20:16N/16:32N 16:22N/12:35N 16:22N/12:35N 12:35N/16:22N 17:00N/20:16N 20:26N/24:04N	78:0 / / 73151 93:40 / 89:37 89:26 / 85:35 89:26 / 85:35 85:24 / 81:43 85:24 / 81:43 86:04 / 89:26 89:37 / 93:40 93:51 / 98:07	63,5/65,7 65,7/67,6 66,7/67,6 67,3/67,9 67,3/67,9 67,3/67,9 67,3/68,7 68,7/68,7	121 117 115 114 114 112 111 110	204 204 208 208 208 208 204 206	5.4 5.5 4.8 10.9 5.0 11.4 10.7 8.9 10.3 9.6	8, 700 8, 300 8, 300 9, 200 10, 300 11, 200 9, 400 11, 300 12, 100	161 153 143 160 156 146 169 170 194

AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (*W)	Altitudo (1000 ft.)	IAS (Kt)	Temp. (°K)	10 ³ -	dpm/1 Total Beta	000 SCF Sr ⁹⁰
23 Decer	mber 1959	Mission 28	В									
705 LN	2951 2952 2953 2955 2954 2956 2956 2958 2959	WE260 WE261 WE262 FD384 WE263 FD386 FD387 FD388 FD388	N1 N2 N3 H1 N4 H3 H4 H5 H6	1521/1607 1609/1656 1658/1745 1658/1745 1747/1835 1837/1922 1924/2009 2011/2057 2100/2139	27:43N/33;03N 33:17N/36:37N 38:51N/44:11N 38:51N/44:11N 44:25N/49:45N 49:45N/44:25N 44:11N/38;51N 38:37N/33:17N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	64/64,5 64.5/65 65 65 65 64.5/66 66/67 67/68 68/68,5	122 122 121 121 121 120 117 114 111	211 215 220 220 223 223 223 220 215 211	5, 8 5, 8 5, 5 12, 6 5, 5 11, 6 10, 8 10, 2 8, 4	10, 600 10, 800 11, 600 12, 700 13, 900 15, 000 13, 900 15, 700 14, 500	169 193 184 184 226 246 235 210 228
5 Janua	ry 1960	Mission 29										
718 LN	2960 2961 2962 2964 2963 2965 2966 2967 2968 2969	WE268 WE269 WE270 FD390 WE271 FD391 FD392 FD393 FD394 FD395	N1 N2 N3 H1 N4 H2 H3 H4 H5	1518/1602 1610/1650 1652/1739 1652/1739 1741/1807 1741/1807 1820/1842 1844/1927 1929/2016 2019/2103	27:43N/33:03N 34:05N/38:37N 38:51N/44:11N 38:51N/44:11N 44:25N/47:00N 47:00N/44:25N 44:11N/38:51N 38:37N/33:17N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	60 60 60 60 65 65, 2 65, 3 65, 5	135 133 136 136 138 138 121 122 1 22	206 213 217 217 221 221 221 217 213 206	7.8 6.6 7.9 17.8 4.4 9.8 5.8 11.7 13.0	3, 800 6, 100 8, 100 7, 600 9, 500 9, 900 13, 300 13, 600 11, 400 8, 100	73 98 125 156 158 180 208 218 178 176
714 LS	2970 2971 2972 2974 2973 2975	WE272 WE273 WE274 FD402 WE275 FD403	N1 N2 N3 H1 N4 H2	1459/1542 1544/1635 1638/1719 1638/1719 1722/1758 1806/1832	27:43N/24:13N 24:04N/20:26N 20:16N/16:45N 20:16N/16:45N 16:40N/14:14N 14:14N/16:22N	98:07/93:51 93:40/89:37 89:26/85:50 89:26/85:50 85:42/83:15 83:15/85:24	60 60 60 60 60 65	135 136 136 136 135 120	206 203 201 201 201 217	7.6 9.2 7.5 17.1 6.6 7.0	1,820 1,630 2,900 4,000 3,500 13,800	26 28 68 64 64 216
7 Janu	ary 1960	Mission 30										
716 MN	2988 2989 2990 2991 2992 2993 2984 2985 2986 2987	M181 M182 M183 M184 M185 M186 WP1641 WP1642 WP1643 WP1644	H1 H2 H3 H4 H5 H6 N1 N2 N3 N4	1401/1436 1438/1513 1515/1550 1552/1627 1627/1704 1706/1740 1745/1822 1824/1905 1907/1948 1951/2027	50:17N/52:56N 53:04N/55:43N 55:51N/58:20N 58:28N/60:55N 61:02N/63:28N 63:36N/66:00N 66:00N/62:23N 62:11N/58:35N 58:22N/54:35N 54:24N/50:17N	102:31/104:16 104:21/106:28 106:36/109:09 109:18/112:18 112:27/119:57 116:08/120:00 120:00/114:25 114:06/109:27 109:12/105:30 105:20/102:31	40 40 40 40 40 40 50 50 50	170 170 170 170 170 170 160 160	225 224 225 225 227 227 226 225 224 223	31, 8 31, 8 31, 8 31, 6 30, 2 10, 2 11, 3 11, 4 10, 1	2, 400 2, 700 4, 500 4, 400 4, 200 6, 200 4, 700 5, 900 4, 000	49 46 77 79 77 84 125 79 107 68
714 LN	2997 2998 2999 3000 3001 3002 2994 2995 2996	FD420 FD421 FD422 FD423 FD424 FD425 WE280 WE281 WE282	H1 H2 H3 H4 H5 H6 N1 N2 N3	0835/0902 0906/0936 0938/1005 1007/1035 1039/1103 1105/1138 1143/1223 1227/1310 1312/1350	27:43N/30:20N 30:31N/33:09N 33:20N/35:57N 36:08N/38:46N 38:57N/41:34N 41:45N/44:23N 44:23N/40:22N 40:10N/36:09N 35:57N/31:56N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	40 40 40 40 40 45.5 45.5	170 170 170 170 170 170 165 165	217 216 213 215 214	25.0 27.6 24.7 26.2 22.5 30.9 13.9 14.9 13.3	< 230 T, 450 1, 380 1, 410 2, 300 2, 300 3, 300 2, 900 1, 480	3 29 21 30 38 49 66 58 29
705 LN	3003 3004 3005 3007 3006 3008 3009 3010 3011 3012	WE276 WE277 WE278 FD408 WE279 FD409 FD411 FD411 FD412 FD413	N1 N2 N3 H1 N4 H2 H3 H4 H5	0804/0848 0850/0932 0934/1024 0934/1024 1026/1107 1026/1107 1118/1202 1204/1248 1250/1334	27:43N/32:37N 32:50N/37:45N 37:58N/42:52N 37:58N/42:52N 43:05N/48:00N 43:05N/48:00N 48:00N/43:05N 42:52N/37:58N 37:45N/32:50N 32:37N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	50 50 50 50 50 50 55.5 55.5 55.5	162 161 161 160 160 150 151	208 210 210 213 213 214 211 211	14.4 12.8 15.0 33.1 12.1 26.8 22.0 22.9 22.6 27.3	< 640 3,300 3,100 4,200 3,500 4,700 6,400 3,600 2,500 1,930	9 69 67 83 64 125 78 49 37

Table 4.2 (continued)

										. —	dpm/1	000 SCF
AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 fs.)	IAS (Kt)	Temp.	10 ³ SCF	Total Beta	S r 90
12 Janua	ry 1960	Mission 31										
717 MN	3039 3040 3041 3042 3043 3044	M193 M194 M195 M196 M197 M198	H1 H2 H3 H4 H5 H6	1426/1501 1502/1537 1539/1614 1616/1726 1759/1844 1846/1930	50:17N/53:52N 54:00N/57:22N 57:32N/61:36N 61:46N/65:42N 69:53N/65:27N 65:14N/60:30N	102:31/104:55 105:00/108:06 106:16/113:15 113:29/119:35 129:00/119:11 118:50/111:46	55, 5 55 55 55 60, 3 61	155 155 155 155 135 135	215 216 217 218 218 219	18, 1 18, 0 18, 1 36, 1 16, 7 15, 9	4,700 5,400 8,800 7,800 11,300	133 134 157 155 189 203
716 MN	3045 3046 3047 3049 3048 3051 3052 3053	WP1365 WP1366 WP1367 M187 WP1368 M189 M190 M191	N1 N2 N3 H1 N4 H3 H4 H5	1355/1431 1422/1508 1510/1543 1510/1543 1545/1620 1545/1620 1734/1818 1820/1911	50:17N/53:48N 53:58N/57:20N 57:32N/60:46N 57:32N/60:46N 60:56N/63:56N 60:56N/63:56N 69:53N/65:25N 65:11N/60:47N	102:31/104:52 105:00/108:06 108:16/112:07 108:16/112:07 112:18/116:40 112:18/116:40 129:00/119:08 118:46/111:55	60/65 65/65, 7 65, 7/66, 4 65, 7/66, 4 66, 3 66, 3 66, 3 65, 4/66, 7 66, 8/69	122 121 120 120 119 119 120 114	211 211 212 212 214 214 220 213	4.6 4.3 3.9 8.8 4.0 9.0 11.1	10, 900 15, 900 15, 100 15, 900 17, 300 24, 000 15, 900 22, 000	162 215 195 191 217 231 218 219
705 RO	3017 3018 3014 3015 3016	FD450 FD451 WE1620 WE1621 WE1622	H1 H2 N1 N2 N3	1248/1348 1353/1453 1507/1637 1644/1824 1825/2005	18:30N 18:30N 18:30N 18:30N 18:30N	67:08 67:08 67:08 67:08 67:08	55 60 65 68 70, 1	150 135 121 112 105	199 201 204 206 208	33.1 24.8 11.7 10.2 8.5	< 690 <b>2</b> ,500 5,700 7,800 11,100	7 37 113 150 189
718 RS	3019 3020 3021 3023 3022 3024 3025 3026 3027 3028	WE1380 WE1381 WE1382 FD444 WE1383 FD445 FD446 FD447 FD448 FD449	N1 N2 N3 H1 N4 H2 H3 H4 H5	1235/1332 1334/1423 1425/1510 1425/1510 15:2/100: 1512/1601 1612/1641 1643/1732 1734/1820 1822/1910	15:00N/09:25N 09:11N/03:37N 03:23N/02:11S 03:23N/02:11S 02:255/08:00S 02:255/08:00S 08:005/02:25S 02:115/03:23N 03:37N/09:11N 09:25N/15:00N	67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	60 60 60 60 65 65 65	136 136 137 137 137 137 122 122 123 125	201 202 202 202 203 203 203 202 202 202 203	10.5 9.0 8.3 18.8 9.0 20.3 8.8 14.9 14.1	1,550 1,670 1,480 <1,520 1,460 <1,270 3,900 5,100 3,400 6,500	31 23 27 26 23 22 74 98 61
714 RS	3033 3034 3029 3035 3030 3036 3031 3037 3032 3038	FD456 FD457 WE1396 FD458 WE1397 FD459 WE1398 FD460 WE1399 FD461	H1 H2 N1 H3 N2 H4 N3 H5 N4 H5	1206/1254 1256/1345 1347/1434 1347/1434 1438/1525 1438/1525 1536/1622 1536/1622 1625/1711	15:00N/09:25N 09:11N/03:37N 03:23N/02:11N 03:23N/02:11N 02:255/08:00S 02:255/08:00S 08:005/02:25S 08:005/02:25S 02:11S/03:23N 02:11S/03:23N	67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	66.4/67.5 67.4/67.6 67.7/67.9 67.7/67.9 67.9/68.7 67.9/68.7 68.8/69.6 68.8/69.6 69.6/70.6	115 112 112 112 111 111 109 109 107	203 203 302 202 202 202 202 202 202 202	12,3 11,8 5,0 11,4 4,8 10,8 4,4 10,1 4,2 9,6	6, 300 6, 900 5, 700 6, 700 5, 200 4, 800 6, 700 6, 200 7, 800 8, 300	132 129 133 142 122 104 117 129 181 165
14 Janu	ary 1960	Mission 32/	7									
705 RS	3055 3056 3057 3059 3058 3061	WE1272 WE1273 WE1274 FD468 WE1275 FD470	N1 N2 N3 H1 N4 H3	1235/1323 1326/1416 1418/1505 1418/1505 1507/1601 1613/1750	15:00N/09:25N 09:11N/03:37N 03:23N/02:11S 03:23N/02:11S 02:25S/08:00S 08:00S/02:45S	67:00 67:00 67:00 67:00 67:00 67:00	60 60 60 60 60 65	136 135 135 135 135 121	202 202 202 202 202 202 202	8.9 9.1 8.5 19.3 9.8 29.1	≤1,290 1,700 2,000 2,300 1,170 4,600	18 32 39 37 17 54
718 RS	3062 3063 3064 3065 3067 3068 3069 3070	WE1188 WE1189 WE1190 WE1191 FD463 FD464 FD465 FD466 FD467	N1 N2 N3 N4 H2 H3 H4 H5	1205/1254 1256/1345 1348/1433 1436/1519 1436/1519 1524/1606 1610/1701 1703/1751 1753/1844	15:00N/09:25N 09:11N/03:37N 03:23N/02:11S 02:255/08:00S 02:255/08:00S 08:005/02:25S 02:115/03:23N 03:37N/09:11N 09:25N/15:00N	67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	64.7/65.5 65.5/65.6 65.6/66.2 66.2/67.3 66.2/67.3 67.3/68.4 68.4/69.2 69.2/69.6	117 119 117 116 116 113 111 109	206 206 206 206 206 206 206 206 206	5.9 6.0 5.3 4.8 11.0 9.9 11.4 10.1	6,500 6,900 7,400 6,900 6,800 6,000 7,700 10,300 9,200	136 112 126 138 114 128 158 206

AC No.	HASP No.	Air Force	Filter	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS	Temp.	10 ³	Total	900 SCF
		No.					(1000 11.)	(Kt)	(*K)	SCF	Heta	S1 70
	1960	Mission 321	· <b>-</b>									
717	3072	WP2113	N1	1412/1442	47: 30 N	104:00	30	176	216	16.5	≤ 420	4
MO	3076	M205	H1	1412/1442	47: 30N	104:00	30	176	216	37,0	≤ 310	4
	3073 3077	WP2114	N2	1446/1536 1446/1536	47: 30N 47: 30N	104:00	40 40	170 170	216	20,8	1,640	32
	3074	M206 WP2115	H2 N3	1542/1642	47:30N	104:00 104:00	50	160	216 212	47, D 17, 6	1,880 4,300	30 78
	3078	M207	H3	1542/1642	47:30N	104:00	50	160	212	38.9	3, 400	66
	3075	WP2116	N4	1649/1749	47:30N	104:00	57	146	211	12, 6	6,500	129
	3079	M208	H4	1649/1749	47:30N	104:00	57	146	211	28.1	5, 200	126
	3080	M209	H5	1756/1927	47:30N	104:00	64	122	205	28, 2	11, 100	182
	3081	M210	H6	1930/1945	47:30N	104:00	67,8	118	204	3, 8	27,000	212
715	3082	WP2149	N1	1345/1425	47;30N	104:00	45	165	213	14, 1	2,700	36
МО	3086	M199	<b>H1</b>	1345/1425	47:30N	104:00	45	165	213	31.6	3, 200	52
	3083	WP2150	N2	1429/1519	47:30N	104:00	50	160	211	14.8	3,000	52
	3087	M200	HZ	1429/1519	47:30N	104;00	50	160	211	32.7	3, 800	73
	3084	WP2151	N3	1522/1622	47:30N	104:00	55	155	211	14.7	3, 600	67
	3088	M201	H3	1522/1622	47:30N	104:00	55	155	211	32.1	5,600	81
	3085	WP2152	N4	1627/1727	47:30N	104:00	60	133	208 208	10.3	4, 800	104
	3089 3090	M202 M203	H4 H5	1627/1727 1729/1902	47:30N 47:30N	104:00 104:00	60 64	133 122	208	23, 3 28, 9	6, 600	101
	3091	M204	H6	1904/2000	47:30N	104:00	67	118	204	14.7	12, 900 21, 000	190 193
	3071	MEUT	no	170472000	47:3014	104:00	67	110	207	14, /	21,000	193
i9 Janu	ary 1960	Mission 33										
717	3096	M211	н	1526/1559	50: 17N/53:03N	102:31/104:20	40	170	216	31.0	3, 200	60
MN	3097	M212	H2	1601/1634	53:14N/55:56N	104:28/106:40	40	170	215	31.1	1,930	41
	3098	M213	113	1636/1708	56:06N/58:49N	106:50/109:40	40	170	215	30.6	2, 100	48
	3099	M214	H4	1714/1747	58:58N/61:35N	109: 52/113: 15	40	170	216	31.0	2,400	54
	3100	M215	H5	1749/1823	61:44N/64:20N	113:25/117:17	40	170	216	32.4	2,000	41
	3101	M216	H6	1826/1904	64:28N/67:00N	117:32/122:05	40	170	216	35, 7	1,630	33
	3092	WP1693	N1	1910/1953	67:00N/63:14N	122:05/115:35	50	160	217	12.3	6,400	126
	3093	WP1694	NZ	1955/2039	63:03N/59:07N	115:20/140:03	50	160	215	12.8	6,500	108
	3094 3095	WP1695 WP1696	N3 N4	2041/2123 2127/2210	58:56N/54:53N 54:42N/50:17N	109:51/105:42 105:34/102:31	50 50	160 160	214 215	12. 2 12. 5	6,600 4,400	131 80
715	3106	M217	н1	1437/1506	50:17N/47:28N	102:31/101:58	40	170	217	27,2	4,700	77
MS	3107	M218	112	1508/1538	47:18N/44:32N	101;55/101:27	40	170	217	28, 1	3, 600	80
	3108	M219	Н3	1541/1611	44:22N/41:29N	101:25/100:56	40	170	218	28.0	2,800	45
	3109	M220	114	1613/1643	41:47N/38:24N	100:55/100:34	40	170	214	28.9	3, 100	45
	3110	155M	H5	1645/1714	38: 12N/35; 26N	100:27/100:05	40	170	212	27.7	≤ 930	12
	3111	M222	H6	1716/1745	35: 15 N/32: 28 N	100:03/99:41	40	170	211	27.8	≤ 410	5
	3102	WP1937	N1	1754/1837	32: 28N/36: 43N	99:41/100:14	45	165	209	15,5	1, 190	20
	3103	WP1938	NZ	1839/1924	36;54N/41:10N	100:15/100:53	45	165	213	15, 9	2, 300	54
	3104 3105	WP1939 WP1940	N3 N4	1926/2011 2013/2054	41: 22N/45: 42N 45: 52N/50: 17N	100:55/101:38	45 45	165 165	216 215	15.7 14.3	2, 900 2, 600	56 42
714 LN	3112 3113	WE300 WE301	N1 N2	1449/1533 1535/1622	27: 43N/32: 37N 32: 50N/37: 45N	98:07 98:07	50 50	160 160	214 216	12.8 13.6	1, 260 2, 800	22 54
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	3115	WE303	N4	1712/1758	43:05N/48:00N	98:07	50	160	216	13.3	5, 400	92
	3117	FD 499	511	1712/1758	43:05N/48:00N	98:07	50	160	216	29.3	5, 400	112
	3118	FD 500	Н3	1806/1853	48:00N/43:05N	98:07	55	150	216	23.6	7,800	173
	3119	FD 501	114	1855/1940	42:52N/37:58N	98:07	55	150	217	22.5	6, 200	117
	3120	FD 502	H5	1942/2029	37: 45N/32: 50N	98:07	55	150	217	23, 2	3, 600	65
	3121	FD 503	116	2031/2123	32: 37N/27: 43N	98:07	55	150	212	26.6	1,710	27
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714	3146	FD510	H1	1520/1603	27:43N/32:50N	98:07	64.6/65.5	119	208	12.0	10,000	17:
LN	3143	WE313	N2	1605/1649	33:03N/38:08N	98:07	65.5/65.4	119	209	5.2	12, 100	207
	3144	WE314	N3	1650/1732	38:22N/43:22N	98:07	65.5/67.1	117	210	4.7	22,000	245
	3145	WE315	N4	1734/1817	43:34N/48:40N	98:07	67.1/67.7	115	211	4.5	26,000	258
	3147	FD511	H2	1734/1817	43:34N/48:40N	98:07	67.1/67.7	115	211	10.3	28,000	277
	3148	FD512	H3	1825/1910	48;40N/43:34N	98:07	67.3/69.0	114	211	10,4	29,000	281
	3149	FD513	114	1913/1959	43:22N/38:22N	98:07	69.1/69.1	111	210	10.0	29,000	478
	3150	FD514	115	2001/2047	38:08N/33:03N	98:07	69, 2	110	209	9.7	14,960	294
	3142	WE312	N4	2049/2135	32:50N/27:43N	98:07	69.2/70.1	109		4.2	13.900	415
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715 3122 WPL1106 N1 MN 3123 WPL1109 N2 3124 WPL1110 N3 3126 M223 H1 3125 WPL1111 N4 3127 M224 H2 3128 M225 H3 3129 M226 H4 3130 M227 H5  717 3132 WPL1100 N1 MN 3133 WPL1101 N2 3134 WPL1102 N3 3136 M229 H1 3137 M230 H2 3138 M231 H3 3137 M230 H2 3138 M231 H3 3137 M230 H2 3138 M231 H3 3139 M232 H4 3141 M234 H6  76 January 1960 Mission 35  718 3156 WE327 N1 LN 3157 WE328 N2 3160 FD522 H1 3159 WE330 N4 3161 FD523 H2 3162 FD524 H3 3163 FD525 H4 3164 FD526 H5 3165 FD527 H6  714 3166 WE323 N1 LS 3167 WE324 N2 3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  28 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL990 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD544 H5	1532/4612 54:20N 1644/4650 58:09N 1652/4728 61:48N 1652/4728 61:48N 1652/4728 61:48N 1652/4728 61:48N 1652/4728 59:52N 1935/2013 65:15N 2015/2102 59:59N 1426/4501 50:47N 1503/1539 54:18N 1541/1616 58:04N 1541/1616 58:04N 1641/1652 61:44N 1641/1652 61:44N 1641/1652 61:44N 1641/1652 61:44N 1641/1652 61:44N 1753/4842 38:51N 1753/4842 38:51N 1753/1842 38:51N	/57:55N 405:11 /64:38N 108:54 /64:38N 108:54 /65:02N 113:33 /65:02N 113:32 /65:23N 108:54 /65:24N 108:55 /64:54N 113:22 /66:25N 108:54 /64:54N 113:24 /65:25N 110:5 /64:54N 113:24 /65:25N 110:5	8/108:42 4/113:14 4/113:14 5/118:19 5/118:19 5/119:09 6/111:21 5/106:18 6/113:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/13:10 6/1	55 15 55 15 55 15 55 15 56 15 50 13 50 13 50 13 60	5 216 5 215 5 214 5 214 5 212 5 212 5 212 6 212 7 212 2 212 2 214 4 215 9 210 10 20 10	9. 5 8. 6 18. 7 8. 8 19. 2 18. 5 18. 5 18. 1 4. 7 4. 3 9. 7 12. 8 11. 4 9. 9	6,800 5,900 6,900 8,800 4,500 6,700 13,900 10,200 13,900 15,300 15,500 17,300 17,300 17,500 17,600	143 143 140 154 140 134 245 267 245 273 228 237 269 76
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3141 M234 H6 6 January 1960 Mission 35 718 3156 WE327 N1 LN 3157 WE328 N2 3158 WE329 N3 3160 FD522 H1 3159 WE330 N4 3161 FD523 H2 3162 FD524 H3 3163 FD525 H4 3164 FD526 H5 3165 FD527 H6 714 3166 WE323 N1 LS 3167 WE324 N2 3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3 28 January 1960 Mission 36A 717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4 29 January 1960 Mission 36B 718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3188 FD544 H5	1612/1700 27:43N 1702/1751 33:17N 1703/1842 38:51N 1753/1842 38:51N 1844/1923 44:251 1844/1923 44:251 1934/2012 48:401	1/54:55N 110:5 1/33:03N 5 1/38:37N 5 1/44:11N 5 1/44:41N 5 1/46:40N 6 1/48:40N 6 1/48:40N 6 1/48:25N 6	98:07 98:07 98:07 98:07 98:07	8/69.2 10 60 13 60 13 60 13	9 210 15 207 15 209 15 211	9. 9 8. 4 8. 5 8. 4	3, 400 5, 000 10, 600	264 76 99
718 3156 WE327 N1 LN 3157 WE328 N2 3158 WE329 N3 3160 FD522 H1 3159 WE330 N4 3161 FD523 H2 3162 FD524 H3 3163 FD525 H4 3164 FD526 H5 3165 FD527 H6  714 3166 WE323 N1 LS 3167 WE324 N2 3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  18 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3187 FD543 H4 3187 FD543 H4 3187 FD543 H4 3188 FD544 H5 3188 FD544 H5 3189 FD544 H5	1702/1751 33:17N 1753/1842 38:51N 1753/1842 38:51N 1844/1923 44:25N 1844/1923 44:25N 1934/2012 48:40N	N/38:37N N/44:11N N/44:11N N/48:40N N/48:40N N/44:25N	98:07 98:07 98:07	60 ti	35 209 35 211	8. 5 8. 4	5,000 10,600	9°
718 3156 WE327 N1 LN 3157 WE328 N2 3158 WE329 N3 3160 FD522 H1 3159 WE330 N4 3161 FD523 H2 3162 FD524 H3 3163 FD525 H4 3164 FD526 H5 3165 FD527 H6  714 3166 WE323 N1 LS 3167 WE324 N2 3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  18 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3187 FD543 H4 3187 FD543 H4 3187 FD543 H4 3188 FD544 H5 3188 FD544 H5 3189 FD544 H5	1702/1751 33:17N 1753/1842 38:51N 1753/1842 38:51N 1844/1923 44:25N 1844/1923 44:25N 1934/2012 48:40N	N/38:37N N/44:11N N/44:11N N/48:40N N/48:40N N/44:25N	98:07 98:07 98:07	60 ti	35 209 35 211	8. 5 8. 4	5,000 10,600	9°
LN 3457 WE328 NZ 3458 WE329 N3 3460 FD522 H1 3459 WE330 N4 3461 FD523 H2 3462 FD524 H3 3463 FD525 H4 3464 FD526 H5 3465 FD527 H6  744 3466 WE323 N1 LS 3467 WE324 N2 3468 WE325 N3 3470 FD528 H1 3469 WE325 N4 3471 FD529 H2 3472 FD530 H3  88 January 1960 Mission 36A  747 3476 WPL917 N1 MN 3477 WPL918 N2 3478 WPL949 N3 3478 WPL949 N3 3478 WPL949 N4 29 January 1960 Mission 36B  748 3484 FD540 H1 LN 3485 FD541 H2 3487 FD543 H4 3487 FD543 H4 3487 FD543 H4 3487 FD544 H5 3488 FD544 H5	1702/1751 33:17N 1753/1842 38:51N 1753/1842 38:51N 1844/1923 44:25N 1844/1923 44:25N 1934/2012 48:40N	N/38:37N N/44:11N N/44:11N N/48:40N N/48:40N N/44:25N	98:07 98:07 98:07	60 ti	35 209 35 211	8. 5 8. 4	5,000 10,600	9°
3158 WE329 N3 3160 FD522 H1 3159 WE330 N4 3161 FD523 H2 3162 FD524 H3 3163 FD525 H4 3164 FD526 H5 3165 FD527 H6  714 3166 WE323 N1 LS 3167 WE324 N2 3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  R8 January 1960 Mission 36A  18 January 1960 Mission 36A  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3187 FD543 H4 3188 FD544 H5 3188 FD544 H5 3189 FD544 H5	1753/1842 38:51N 1753/1842 38:51N 1844/1923 44:25N 1844/1923 44:25N 1934/2012 48:401	N/44:11N N/44:11N N/48:40N N/48:40N N/44:25N	98:07 98:07	60 i:	35 211	8.4	10,600	18:
3160 FD 522 H1 3159 WE330 N4 3161 FD 523 H2 3162 FD 524 H3 3163 FD 525 H4 3164 FD 526 H5 3165 FD 527 H6  714 3166 WE323 N1 LS 3167 WE324 N2 3168 WE325 N3 3170 FD 528 H1 3169 WE326 N4 3171 FD 529 H2 3172 FD 530 H3  18 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD 540 H1 LN 3185 FD 541 H2 3187 FD 543 H4 3187 FD 543 H4 3188 FD 544 H5 3189 FD 544 H5	1753/1842 38:51N 1844/1923 44:25N 1844/1923 44:25N 1934/2012 48:40N	V/44:11N V/48:40N V/48:40N V/44:25N	98:07					
3159 WE330 N4 3161 FD523 H2 3162 FD524 H3 3163 FD525 H4 3164 FD526 H5 3165 FD527 H6  714 3166 WE323 N1 LS 3167 WE324 N2 3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  18 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N2 3178 WPL919 N2 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3187 FD543 H4 3188 FD544 H5 3188 FD544 H5 3188 FD544 H5	1844/1923 44:251 1844/1923 44:251 1934/2012 48:401	1/48:40N 1/48:40N 1/44:25N		60 13			42,000	20
3161 FD 523 H2 3162 FD 524 H3 3163 FD 525 H4 3164 FD 526 H5 3165 FD 527 H6  714 3166 WE 323 N1 LS 3167 WE 324 N2 3168 WE 325 N3 3170 FD 528 H1 3169 WE 326 N4 3171 FD 529 H2 3172 FD 530 H3  8 January 1960 Mission 36A  18 January 1960 Mission 36A  18 January 1960 Mission 36B  718 3184 FD 540 H1 LN 3185 FD 541 H2 3186 FD 542 H3 3187 FD 543 H4 3187 FD 543 H4 3188 FD 544 H5 3188 FD 544 H5 3188 FD 544 H5	1844/1923 44:251 1934/2012 48:401	N/48:40N N/44:25N	98:07			19.0		
3162 FD 524 H3 3163 FD 525 H4 3164 FD 526 H5 3165 FD 527 H6  714 3166 WE 323 N1 LS 3167 WE 324 N2 3168 WE 325 N3 3170 FD 528 H1 3169 WE 326 N4 3171 FD 529 H2 3172 FD 530 H3  8 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD 540 H1 LN 3185 FD 541 H2 3186 FD 542 H3 3187 FD 543 H4 3188 FD 544 H5 3188 FD 544 H5 3189 FD 544 H5	1934/2012 48:401	N/44:25N		60 1:		6.6	11,000	17
3163 FD 525 H4 3164 FD 526 H5 3165 FD 527 H6  714 3166 WE 323 N1 LS 3167 WE 324 N2 3168 WE 325 N3 3170 FD 528 H1 3169 WE 326 N4 3171 FD 529 H2 3172 FD 530 H3  8 January 1960 Mission 36A  18 January 1960 Mission 36A  18 January 1960 Mission 36B  718 3187 WPL919 N3 3179 WPL920 N4  19 January 1960 Mission 36B  718 3184 FD 540 H1 LN 3185 FD 541 H2 3186 FD 542 H3 3187 FD 543 H4 3188 FD 544 H5 3188 FD 544 H5 3189 FD 544 H6					35 214	14. 9	11,700	19
3164 FD 526 H5 3165 FD 527 H6  714 3166 WE 323 N1 LS 3167 WE 324 N2 3168 WE 325 N3 3170 FD 528 H1 3169 WE 326 N4 3171 FD 529 H2 3172 FD 530 H3  28 January 1960 Mission 36A  717 3476 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD 540 H1 LN 3185 FD 541 H2 3186 FD 542 H3 3187 FD 543 H4 3188 FD 544 H5 3189 FD 544 H5	2015/2058 44:111				22 239	9. 2	14, 900	27
3165 FD 527 H6  714 3166 WE 323 N1 LS 3167 WE 324 N2 3168 WE 325 N3 3170 FD 528 H1 3169 WE 326 N4 3171 FD 529 H2 3172 FD 530 H3  28 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N2 3178 WPL919 N4 3178 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD 540 H1 LN 3185 FD 541 H2 3186 FD 542 H3 3187 FD 543 H4 3188 FD 544 H5 3188 FD 544 H5					21 235	10.5	18,700	26
LS 3167 WE324 N2 3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3   8 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD544 H5					21 212 21 210	12. 9 13. 9	13, 900 9, 400	21 16
LS 3167 WE324 N2 3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  28 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3187 FD544 H5 3187 FD544 H5			07/93:51	60 1	35 204	7, 7	3,700	6
3168 WE325 N3 3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  28 January 1960 Mission 36A  28 January 1960 Mission 36A  28 January 1960 Mission 36B  718 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 1.N 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD544 H5					33 202	7, 8	1,760	3
3170 FD528 H1 3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  28 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3188 FD544 H5 3189 FD544 H5					35 199	7. 2	2,700	4
3169 WE326 N4 3171 FD529 H2 3172 FD530 H3  28 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD544 H5					35 199	18.0	2,500	5
3171 FD529 H2 3172 FD530 H3  28 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 I.N 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD544 H5					36 195	9. 6	2,000	4
3172 FD530 H3  28 January 1960 Mission 36A  717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3188 FD544 H5					36 195	21.5	1,960	4
717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD544 H5					21 215	24.0	7, 200	14
717 3176 WPL917 N1 MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD544 H5								
MN 3177 WPL918 N2 3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD545 H6							44.500	• •
3178 WPL919 N3 3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD544 H5			31/106; 25		35 214		14,500	19
3179 WPL920 N4  29 January 1960 Mission 36B  718 3184 FD540 H1 I.N 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD545 H6			31/111:58		35 212		13,700	18
718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD545 H6			12/119:17 34/129:00		35 210 35 208		15, 200 10, 800	16
718 3184 FD540 H1 LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD545 H6								
LN 3185 FD541 H2 3186 FD542 H3 3187 FD543 H4 3188 FD544 H5 3189 FD545 H6								
3186 FD 542 H3 3187 FD 543 H4 3188 FD 544 H5 3189 FD 545 H6		N/30:20N	98:07		70 218		≤ 410 ≤ 4000	
3187 FD 543 H4 3188 FD 544 H5 3189 FD 545 H6		N/33:09N	98:07		70 216		≤ 1,080	4
3188 FD 544 H5 3189 FD 545 H6		N/35:57N	98:07		70 213		1, 470	
3189 FD 545 H6		N/38:46N	98:07		70 214		1,610	
		'N/41:34N	98:07		170 215 170 215		1,130 ≤ 220	•
		N/44: 23N	98:07		170 219 165 219		2, 800	
3180 WE335 N1	1118/1208 44:23 1209/1244 40:10	M/40:22N M/36:09N	98:07 98:07		165 212		2, 200 2, 200	-
3181 WE336 N2 3182 WE337 N3	1246/1327 35:57	N/36:09N N/31:56N	98:07		165 209		1,560	
3183 WE338 N4		IN/27:43N	98:07		165 210		≤ 630	
714 3190 WE331 N1	0024 (00:00 27 ::	3N/32:38N	98:07	49, 5	160 20:	14.4	≤ 880	
LN 3194 FD534 H1	0731/0817 27:43	3N/32:38N			160 20		€ 710	
3191 WE332 N2		N/36:58N			160 20		1, 230	
3192 WE333 N3	0731/0817 27:43	N/41:57N	98:07		160 20		1, 420	
3193 WE334 N4	0731/0817 27:43 0819/0905 32:50		98:07		160 21		2,000	
3195 FD535 H2	0731/0817 27:43 0819/0905 32:50 0907/0953 37:09				160 21		2, 200	
3196 FD 536 H3	0731/0817 27:43 0819/0905 32:50 0907/0953 37:09 0954/1041 42:10	N/46:41N			152 21		5, 200	i
3197 FD537 114	0731/0817 27:42 0819/0905 32:50 0907/0953 37:09 0954/1041 42:10		98:07 98:07	55			5, 300	1
3198 FD 538 H5	0731/0817 27:43 0819/0905 32:55 0907/0953 37:06 0954/1041 42:10 0954/1041 42:11 1056/1138 47:33	0N/46:41N 0N/46:41N	98:07		153 21		3,500	
3199 FD539 H6	0731/0817 27:43 0819/0905 32:50 0907/0953 37:00 0954/1041 42:10 0954/1041 42:11 1056/1138 47:33 1146/1224 41:18	0N/46:41N 0N/46:41N 1N/42:16N	98:07 98:07	55	153 41 152 20	6 21.5	4, 400	

Table 4, 2 (continued)

											dpm/1	000 SCF
AC No,	HASP No.	Ar Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft. )	IAS (Kt)	Temp,	10 ³ SCF	Total Bota	Sr ⁹⁰
2 Febru	ary 1960	Mission 37A										
718 LN	3200 3201 3202 3204 3203 3205 3206 3207 3208 3209	WE343 WE344 WE344 WE346 FD557 WE346 FD559 FD560 FD561 FD562	N1 N2 N3 H1 N4 H2 H3 H4 H5	1716/1801 1803/1847 1849/1933 1849/1932 1935/2008 1935/2008 2016/2051 2053/2138 2140/2225 2227/2310	27:43N/32:50N 33:04N/38:12N 38:25N/43:30N 38:25N/43:30N 43:43N/47:40N 43:43N/47:40N 47:40N/43:43N 43:30N/38:25N 38:12N/33:04N 32:50N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	63, 2/64 64/64, 2 64, 2/64, 4 64, 2/64, 4 64, 5/65 64, 5/65, 9 66/66, 5 66, 6/67, 5 67, 8/69, 1	125 125 124 124 123 123 120 118 115 115	213 215 215 215 216 216 216 215 215 215	5.9 5.7 5.7 13.0 4.1 9.4 9.4 11.3 10.6 9.4	7,600 9,000 8,500 7,700 10,400 9,700 17,000 8,800 14,500 14,200	166 187 164 148 252 189 258 163 241 260
705 LS	3214 3210 3211 3212 3215 3213 3217 3218 3219	FD552 WE347 WE348 VE349 FD553 WE350 FD555 FD557 FD556	HI N1 N2 N3 H2 N4 H4 H5	1647/1736 1738/1814 1816/1902 1904/1934 1904/1934 1942/2016 2018/2104 2107/2152 2155/2235	27:43N/23:30N 23:20N/20:26N 20:17N/16:32N 16:22N/13:47N 16:22N/13:47N 13:47N/16:22N 16:32N/20:16N 20:26N/24:04N 24:13N/27:43N	98:07/93:00 92:48/89:37 89:26/85:35 85:24/82:50 85:24/82:50 82:50/85:24 85:35/89:26 89:37/93:40 93:51/98:07	63. 1/64, 2 64. 1/64. 9 65, 9/66. 2 65. 9/66. 2 66. 1/66. 5 66. 5 66. 5 67. 3/67. 7	125 122 120 118 118 118 117 117	211 210 208 207 207 207 208 210 212	15, 1 4, 6 5, 7 3, 5 8, 0 4, 0 12, 0 11, 1 9, 3	7, 200 7, 000 5, 900 6, 500 6, 100 6, 300 8, 600 12, 300	164 165 111 141 137 148 170 196 222
3 Febr	uary 1960	Mission 371	3									
716 MO	3220 3224 3221 3225 3222 3223	WP1341 M254 WP1342 M256 WP1343 WP1344	N1 H1 N2 H3 N3 N4	1416/1446 1416/1446 1451/1541 1451/1541 1553/1651 1658/1758	47:30N 47:30N 47:30N 47:30N 47:30N 47:30N	104:00 104:00 104:00 104:00 104:00 104:00	30 30 40 40 50 57,5	175 175 170 170 160 146	218 218 218 218 218 218	16. 2 36. 5 20. 7 46. 6 16. 6 12. 0	280 230 2,300 2,900 2,600 5,200	4 2 42 55 58 90
717 MO	3226 3230 3227 3231 3228 3232 3229 3233 3234 3235	WP1201 M242 WP1202 M243 WP1203 M244 WP1204 M245 M246 M247	N1 H1 N2 H2 N3 H3 H4 H4	1345/1425 1345/1425 1429/1519 1429/1519 1523/1623 1523/1623 1629/1729 1732/1901 1903/2033	47:30N 47:30N 47:30N 47:30N 47:30N 47:30N 47:30N 47:30N 47:30N 47:30N	104:00 104:00 104:00 104:00 104:00 104:00 104:00 104:00 104:00	45 45 50 50 55 55 60 60 64 64, 2/68, 4	165 160 160 155 155 135 135 123	218 218 218 217 217 218 218 218 219	13.8 30.9 14.3 31.6 14.3 31.1 9.9 22.4 25.7 20.2	4,800 4,100 2,000 2,200 4,700 3,800 10,700 8,400 10,800 10,400	97 93 41 38 101 84 174 142 166 161
4 Febr	uary 1960	Mission 38	<u> </u>									
718 LN	3236 3237 3238 3240 3239 3241 3242 3243 3244	WE355 WE356 WE357 FD563 WF358 FD564 FD565 FD566 FD567	N1 N2 N3 H1 N4 H2 H3 H4 H5	1518/1606 1610/1653 1656/1742 1656/1742 1744/1832 1744/1832 1842/1926 1929/2013 2014/2117	27:43N/33:03N 33:17N/38:37N 38:51N/44:11N 38:51N/44:11N 44:25N/49:45N 44:25N/49:45N 44:25N/49:45N 44:11N/38:51N 38:37N/32:07N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	60 60 60 60 60 64.3/65 65	135 135 135 135 135 135 123 121	210 213 214 214 216 216 218 217 215	8.3 7.3 7.8 17.6 8.0 18.1 12.3 12.0	3,300 4,900 5,800 5,400 6,700 6,300 11,300 7,900 6,500	69 114 109 122 144 136 209 224
705 LS	3246 3247 3248 3250 3249	WE351 WE352 WE353 FD569 WE354	N1 N2 N3 H1 N4	1447/1529 1531/1622 1623/1709 1623/1709 1711/1758	27:43N/24:13N 24:04N/20:26N 20:16N/16:32N 20:16N/16:32N 16:22N/12:35N	98:07/93:51 93:40/89:37 89:26/85:35 89:26/85:35 85:24/81:43	59, 7 60 60 60 60	135 136 138 138 139	203 203	7.6 9.3 8.6 19.2 9.0	2, 100 2, 200 ≤ 1, 340 1, 480 1, 280	39 40 20 27 28

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Table 4.2 (continued)

AG No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	dpm/100 Total	
NO 140.	No.	No.		(2)		(°W)	(1000 ft.)	(K)	(*K)	SCF	Beta	8r ⁹⁰
Fobrua	ry 1960	Mission 38B										
15	3252	WP1225	Nı	1345/1425	47:30N	104:00	45	165	217	13.9	3,600	70
MO	3256	M260	Hl	1345/1425	47:30N	104:00	45	165	2 17	31.0	3,800	70
	3253	WP1226	N2	1430/1520	47:30N	104:00	50	160	217	14.4	5,100	118
	3257	M261	H2	1430/1520	47:30N	104:00	50	160	217	31.7	7,700	158
	3254	WP1227	N3	1525/3625	47:30N	104:00	55	155	217	14.3	6,700	128
	3258	M262	H3	1525/1625	47:30N	104:00	55	155	217	31.1	9,400	182
	3255	WP1228	N4	1630/1730	47:30N	104:00	60	135	218	9.9	14, 100	173
	3259	M263	H4	1630/1730	47:30N	104:00	60	135	218	22.4	16,900	195
	3260	M264	H5	1735/1905	47:30N	104:00	64	123	218	26.0	15,800	212
	3261	M265	H6	1910/2040	47.30N	104:00	66.5	1 18	218	22.2	12,600	201
il Febr	uary 1960	Mission 40/	<u> </u>									
705	3279	WE359	Nl	1515/1601	27:43N/33:03N	98:07	63. 2/63. 9	124	211	6. 1	9,100	159
LN	3280	WE360	NS	1603/1649	33:17N/38:37N	98:07	63.9/63.6	123	212	6.0	12,700	195
	3281	WE361	N3	1651/1737	38:51N/44:11N	98:07	64/64.5	122	214	5.8	15,000	211
	3282	WE 362	N4	1738/1825	44:25N/49:45N	98:07	64.6/64.5	122	217	5.6	16,200	212
	3283	FD581	Hl	1834/1920	49:45N/44:25N	98:07	64.5/66.5	118	217	11.8	19,300	210
	3284	FD582	H2	1922/2009	44:11N/38:51N	98:07	66/60.6	117	214	11.6	17,200	255
	3285	FD583	Н3	2012/2057	38:37N/33:17N	98:07	66.7/67.7	114	212	10.7	15,200	238
	3286	FD584	H4	2059/2147	33:03N/27:43N	98:07	67.5/67.5	113	211	11.1	13. 100	190
718	3287	WE363	N1	1444/1530	27:43N/24:13N	98:07/93:51	62.7/64.8	125	211	6.2	8,000	128
LS	3288	WE364	N2	1532/1616	24:04N/20:26N	93:40/89:37	64.9/65.7	120	209	5.4	7, 100	111
	3289	WE365	N3	1617/1702	20:16N/16:32N	89:26/85:3	65.7/66.1	118	207	5.4	5,800	137
	3291	FD575	H1	1617/1702	20:16N/16:32N	89:26/85:35	65.7/66.1	118	207	12.2	6,800	121
	3290	WE366	N4	1705/1751	16:22N/12:35N	85:24/81:43	66. 1/66.9	117	206	5.3	6,300	123
	3292	FD576	HZ	1705/1751	16:22N/12:35N	85:24/81:43	66. 1/66. 9	117	206	12. 1	5,200	125
	3293	FD577	H3	180 1/1846	12:35N/ 16:22N	81:43/85:24	66.7/66.9	117	206	11.5	6,700	137
	3294	FD578	H4	1849/1933	16:32N/20:16N	85:35/89:26	66.9/67.2	117	207	11.2	7,400	167
	3295	FD579	H5	1936/2023	20:26N/24:04N	89:37/93:40	67.4/68.2	114	209	11.0	10, 100	193
	3296	FD580	H6	2026/2107	24:13N/27:43N	93:51/98:07	68.4/68.7	1 12	211	9.0	13,900	220
12 Febr	uary 196	0 Mission 40	В			•						
716	3262	WP1637	N1	1432/1501	47:30 N	104:00	30	175	2 18	15.6	< 220 < 240	2
МО	3266	M 280	HI	1432/1501	47:30N	104:00	30	175	218	35.2	< 240	
	3263	WP1638	N2	1505/1555	47:30N	104:00	40	170	218	20.7	2,800	57
	3264	WP 1639	N3	1600/1700	47:30N	104:00	50	160	217	17.2	3, 100	59
	3265	WP 1640	N4	1705/1805	47:30N	104:00	57.5	146	217	12. 1	7,600	145
	3267	M 283	H4	1705/1805	47:30N	104:00	57.5	146	217	26.6	9,200	18;
	3268	M 284	H5	1812/1942	47:30N	104:00	65	123	218	25,0	15,600	23
715 MO	3270 3273	WP1222 M235	N2 H1	1439/1518 1439/1518	47:30N 47:30N	104:00 104:00	45 45	165 165	217 217	13.5 30.3	3,700 4,400	69
	3271	WP1223	N3	1521/1611	47:30N	104:00	50	160	217	14.4	3,100	86
	3274	M 236	H2	1521/1611	47:30N	104:00	50	160	217	31.7	4,500	69
	3272	WP1244	N4	1614/1714	47:30N	104:00	55	155	217	14.3	5,900	93
	3275	M 237	H3	1614/1714	47:30N	104:00	55 55	155	217	31.1		10
	3269	WP1221	N1	1717/1816	47:30N	104:00	60	135	217	9.8	7,900	180
	3276	M 238	H4	1717/1816	47:30N	104:00	60	135	217	22.1	11,400	17
	3277	M 239	H5	1819/1949	47:30N	104:00	64	123	217		13,000	22
		M 240	H6							26.0	14,300	24
	3278	M 240	пь	1950/2120	47:30N	104:00	64.5/69.5	113	218	20.4	18,900	25

											dpm/1	000 SCF
AC No.	HASP No,	Air Force	Filter	Time (2)	Latitude	Longitude (*W)	Altitude (1000 ft. )	1/LS (Kt)	Temp.	10 ³	Total Beta	Sr 90
16 Febru	ary 1960	Mission 41										
716 MN	3316 3317 3318 3319 3320 3312 3313 3314 3315	M287 M288 M290 M291 M292 WP1517 WP1518 WP1519 WP1520	H1 H2 H3 H4 H5 N1 N2 N3	1426/1459 1501/1533 1536/1618 1620/1649 1653/1724 1805/1850 1852/1928 1929/2012 2018/2054	50:17N/53:19N 53:31N/56:24N 56:34N/59:52N 59:58N/62:30N 62:40N/65:13N 68:00N/64:00N 63:48N/59:36N 59:25N/55:03N 54:49N/50:17N	102:31/104:32 104:40/107:08 107:16/110:58 111:02/114:31 114:45/118:45 124:15/110:35 110:25/105:50 105:39/102:31	45 45 45 45 55 55 55	165 165 165 165 165 155 155 155	222 223 223 224 224 223 223 223 221 220	25. 0 24. 5 31. 7 21. 8 23. 3 10. 4 8. 3 10. 0 8. 4	4, 700 4, 800 5, 300 5, 400 6, 800 6, 800 6, 200 6, 200	103 106 218 107 117 88 118 108
717 MN	3322 3323 3324 3326 3325 3327 3328 3329 3330 3331	WP2201 WP2202 WP2203 M294 WP2204 M295 M296 M297 M298 M299	N1 N2 N3 H1 N4 H2 H3 H4 H5	1355/1428 1429/1505 1506/1543 1506/1543 1544/1619 1544/1619 1734/1824 1826/1917 1919/2011 2014/2106	50:17N/53:59N 54:12N/57:44N 57:55N/61:20N 57:55N/61:20N 61:31N/64:45N 61:31N/64:45N 71:00N/66:29N 66:18N/61:20N 61:10N/55:53N 55:39N/50:17N	102:31/105:02 105:11/108:30 108:42/112:53 108:42/112:53 113:10/117:55 113:10/117:55 132:30/121:02 120:40/112:52 112:37/106:36 106:24/102:31	60 60 60 60,5 60,5 64 65 65	135 135 135 135 135 135 121 121 121	218 219 219 219 220 220 219 218 217 217	5, 5 6, 0 6, 1 13, 7 5, 6 12, 7 14, 0 13, 8 14, 2 14, 2	11, 000 10, 600 11, 100 11, 400 12, 000 13, 200 17, 900 19, 600 16, 300 14, 900	196 200 205 236 249 202 246 248 233 216
718 RS	3301 3297 3298 3299 3300	FD605 WE1392 WE1393 WE1394 WE1395	H1 N1 N2 N3 N4	1130/1504 1512/1555 1557/1645 1647/1739 1742/1832	15:00N/08:00S 08:00S/02:25S 02:11S/03:23N 03:37N/09:11N 10:00N/15:00N	67:00 67:00 67:00 67:00 67:00	60 64.5 63 65.3 65.3	135 121 121 121 121	199 204 204 204 205	89.5 5.7 6.2 6.7 6.3	1,530 3,000 3,700 4,800 5,600	30 71 104 106 130
705 RS	3302 3303 3304 3306 3305 3307 3309 3310 3311	WE1108 WE1109 WE1110 FD599 WE1111 FD600 FD602 FD603 FD604	N1 N2 N3 H1 N4 H2 H4 H5 H6	1100/1148 1151/1239 1241/1326 1241/1326 1329/1417 1329/1417 1425/1558 1600/1647 1650/1734	15:00N/09:25N 09:11N/03:37N 03:23N/02:118 03:23N/02:118 02:25 5/08:008 02:25 5/08:008 02:25 5/08:21N 03:37N/09:11N 09:25N/15:00N	67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	64.3/65 64.7/64.7 64.8/65.7 64.8/65.7 65.8/66.1 65.8/66.1 65.4/67.6 67.4/68.5 68.5/68.9	123 124 123 123 120 120 118 114 112	205 204 204 204 204 204 204 204 205	6.4 6.5 6.0 13.6 6.1 13.7 24.7 11.2	4,500 4,200 4,600 4,800 4,200 5,800 6,500 9,400	116 93 81 98 97 97 116 194
18 Febru	12ry 1960	Mission 42A										
717 MN	3336 3337 3338 3339 3340 3341 3332 3333 3334 3335	M306 M307 M308 M309 M310 M311 WP1576 WP1577 WP1577	H1 H2 H3 H4 H5 H6 N1 N2 N3 N4	1356/1431 1432/1507 1508/1543 1546/1619 1621/1654 1656/1722 1728/1808 1809/1849 1852/1931 1932/2014	50:17N/53:12N 53:23N/56:10N 56:19N/59:00N 59:09N/61:45N 61:53N/64:26N 64:34N/67:00N 67:00N/63:09N 62:57N/59:00N 58:48N/54:45N 54:32N/50:17N	102:31/104:28 104:34/106:54 107:04/109:55 110:05/113:29 113:40/117:27 117:40/122:05 122:05/115:30 15:12/109:55 109:40/105:35 105:25/102:31	40 40 40 40 40 50 50 50	170 170 170 170 170 170 160 160 160	225 225 225 225 224 224 221 222 222	31.8 31.8 31.8 30.0 30.1 23.7 11.2 11.2	5, 400 5, 500 3, 900 4, 000 4, 100 5, 500 6, 100 7, 400 7, 000	115 103 81 93 99 88 114 143 140
19 Fol	bruary 196	0 Mission 4	12B									
705 RS	3342 3346 3343 3344 3345 3347	WE1092 FD606 WE1093 WE1094 WE1095 FD609	N1 H1 N2 N3 N4 H4	1136/1230 1136/1414 1230/1322 1322/1414 1417/1504 1417/1504	15:00N/09:25N 15:00N/02:11S 09:11N/03:37N 03:23N/02:11S 02:25 S/08:00 S 02:25 S/08:00 S	67:00 67:00 67:00 67:00 67:00 67:00	60 60 60 60 60	135 135 135 135 135 135	200 200 200 200 200 200	9.9 65.6 9.5 9.5 8.6 19.5	1,630 1,740 1,210 1,450 1,070 1,170	23 35 31 25 19 30
718 RS	3348 3349 3350 3352 3351 3353	WE1168 WE1169 WE1170 FD612 WE1171 FD613	N1 N2 N3 H1 N4 H12	1059/1149 1151/1240 1242/1329 1242/1329 1332/1422 1332/1422	15:00N/09:25N 09:11N/03:37N 03:23N/02:11S 03:23N/02:11S 02:25S/08:00S 02:25S/08:00S	67:00 67:00 67:00 67:00 67:00 67:00	63,8/64,5 64,5/65 65/65,7 65/65,7 65,9/66,9 65,9/66,9	123 123 121 121 117 117	204 204 204 204 204 204	6.8 6.5 6.1 13.6 5.9 13.3	5, 000 4, 600 5, 100 5, 600 4, 300 5, 100	92 99 105 1 <b>44</b> 101 1 <b>25</b>
23 Feb	ruary 196	0 Mission 4	3									
716 MO	3354 3355 3356 3357	M286 M281 M282 M285	H1 H2 H3 H6	1406/1436 1441/1529 1535/1634 1918/2048	47:30N 47:30N	i 04:00 104:00 104:00 104:00	30 40 50 69.2	175 170 160 113	226 221	36, B 43, 4 36, 8 18, 6	850 4,300 5,400 25,000	21 81 99 322
717 MO	3.58 3.362 3.359 3.363 3.360 3.364 3.361 3.365 3.365 3.366	WP2197 M312 WP2198 M313 WP2199 M314 WP2200 M315 M316 M317	N1 H1 N2 H2 N3 H3 M4 H4 H5	1342/1420 1342/1420 1423/1513 1423/1513 1516/1617 1516/1617 1621/1721 1621/1721 1725/1855 1900/2030	47:30N 47:30N 47:30N 47:30N 47:30N 47:30N 47:30N	104:00 104:00 104:00 104:00 104:00 104:00 104:00 104:00 104:00	45 45 50 55 55 60 60 64 66.3/70.5		223 221 221 220 220 220 220 220 220	12.8 28.7 14.1 31.2 14.3 31.2 9.8 22.2 25.8	3,500 3,500 4,500 4,800 6,100 7,000 12,000 15,800 18,400 15,600	69 58 87 111 117 129 201 223 248 217

Table 4, 2 (continued)

											¢pm/1	000 SCF
AC No.	HAS F	Air Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft.)	1AS (Kt)	Temp.	SCF	Total Beta	Sr 90
25 Febru	ary 1960	Mission 44										
716 MN	3372 3373 3374 3375 3376 3377 3368 3369 3370 3371	M331 M332 M333 M334 M335 M335 WP1949 WP1951 WP1951 WP1951	H1 H2 H3 H4 H5 H6 N1 N2 N3	1416/1449 1452/1527 1529/1603 1605/1640 1642/1717 1719/1755 1801/1835 1837/1917 1920/2003 2005/2048	50:17N/53:31N 53:40N/56:47N 56:56N/59:50N 60:00N/62:38N 62:47N/65:25N 65:34N/68:00N 68:00N/64:00N 63:50N/59:38N 59:25N/55:02N 54:49N/50:17N	102:31/104:41 104:46/107:30 107:40/110:55 111:06/114:45 114:56/119:05 119:21/124:15 124:15/116:46 116:29/110:40 110:25/105:50 105:40/102:31	45 45 45 45 45 45 55 55 55	165 165 165 165 165 165 155 155	223 223 225 224 223 222 222 224 226 223	24. 9 26. 4 25. 4 26. 3 26. 4 27. 3 7. 9 9. 2 9. 7	6,500 7,200 6,900 6,900 3,900 4,000 7,500 13,600 9,700 7,400	151 165 167 151 94 90 133 186 166
717 MN	3378 3379 3380 3381	WP1953 WP1954 WP1955 WP1956	N1 N2 N3 N4	1353/1428 1430/1505 1507/1543 1544/1620	50:17N/54:07N 54:18N/57:51N 58:02N/61:23N 61:34N/64:47N	102;31/105:07 105:15/108;36 108:48/112:58 113:13/118;03	59,5 60 60 60	135 135 135 135	222 223 224 224	5.7 5.6 5.8 5.7	12,300 11,000 13,600 22,000	221 218 226 236
705 LN	3382 3383 3384 3386 3385 3387 3388 3389 3390 3391	WE1080 WE1081 WE1082 FD630 WE1083 FD631 FD632 FD633 FD634 FD635	N1 N2 N3 H1 N4 H2 H3 H4 H5	1519/1558 1559/1640 1643/1723 1643/1723 1724/1804 1724/1804 1818/1856 1900/1938 1945/2020 2023/2105	27;42N/32;28N 32;42N/37;28N 37;42N/42;21N 42;35N/47;25N 42;35N/47;25N 42;35N/47;25N 42;26N/37;42N 37;28N/32;48N 37;28N/32;48N 32;35N/27;42N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	60 60 60 60 60 65 65 65	133 135 135 135 135 135 120 121 121	211 213 216 216 219 219 218 217 215 213	6.5 6.9 6.7 15.1 6.6 14.8 10.2 10.3 9.7	7,400 11,400 11,900 14,200 13,100 13,500 17,700 19,500 15,000	110 170 166 189 184 229 252 208 235
718 LS	3392 3393 3394 3396 3395 3397 3398 3400 3401	WE1088 WE1099 WE1090 FD636 WE1091 FD637 FD638 FD639 FD640 FD641	N1 N2 N3 H1 N4 H2 H3 H4 H5 H6	1457/1537 1539/1620 1623/1707 1623/1707 1709/1754 1709/1754 1802/1847 1849/1925 1927/2016 2018/2104	27:42N/24:25N 24:15N/20:48N 20:38N/17:20N 17:10N/13:42N 17:10N/13:42N 17:10N/13:42N 17:20N/20:48N 20:58N/24:20N 24:28N/27:42N	98:07/94:04 93:52/90:00 89:50/86:20 89:50/86:20 86:12/82:47 86:12/82:47 82:47/86:17 86:25/90:00 90:10/93:56 94:10/98:07	60 60 60 60 60 65 65,5 65,5	135 135 135 135 135 135 121 121 121	205 198 194 194 196 196 204 200 202 208	7. 1 7. 6 8. 3 18. 9 8. 5 19. 2 13. 3 10. 7 14. 4 13. 0	4, 700 1, 360 960 900 820 750 3, 900 4, 000 8, 100 9, 900	65 26 13 15 12 13 94 95 156
1 Marc	h 1960 1	Mission 45										
717 MN	3406 3407 3408 3409 3410 3411 3402 3403 3404 3405	M324 M326 M327 M328 M329 M330 WE1560 WE1561 WE1562 WE1563	H1 H2 H3 H4 H5 H6 N1 N2 N3	1356/1427 1428/1503 1504/1540 1541/1614 1616/1651 1652/1729 1740/1820 1820/1904 1905/1944 1945/2028	50:17N/53:07N 53:16N/56:01N 56:10N/59:04N 59:13N/61:51N 62:00N/64:32N 64:41N/67:00N 67:00N/63:09N 62:58N/59:00N 58:49N/54:54N 54:41N/50:17N	102:31/104:22 104:29/106:44 106:53/110:00 110:10/113:35 113:47/117:37 117:53/122:05 122:05/115:29 115:12/109:55 109:42/105:43 105:33/102:31	40 40 40 40 40 50 50	170 170 170 170 170 170 160 160 160	221 220 220 219 218 218 219 221 221	29, 1 32, 4 33, 3 30, 7 33, 1 34, 5 11, 4 12, 2 11, 0 12, 1	3,800 4,600 6,000 6,000 3,400 4,000 7,200 4,100 7,600 5,700	109 133 132 116 72 77 128 75 143 123
3 Mar	ch 1960	Mission 46A										
717 MN	3412 3413 3414 3416 3415 3417	WE 1572 WE1573 WE1574 M344 WE1575 M345	N1 N2 N3 H1 N4 H2	1424/1517 1519/1615 1617/1711 1617/1711 1713/1810 1713/1810	50:17N/55:54N 56:05N/61:15N 61:26N/66:26N 61:26N/66:26N 66:36N/71:00N 66:36N/71:00N	102:31/106:37 106:48/112:46 113:02/120:58 113:02/20:58 121:15/132:30 121:15/132:30	55 55 55 55 55 55	155 155 155 155 155 155	220 220 219 219 218 218	12.4 13.1 12.7 27.7 13.6 29.4	10,000 8,800 .8,400 6,100 7,400 8,000	178 163 149 105 142 144
4 Mar	ch 1960	Mission 46B	-									
718 LN	3418 3419 3420 3422 3421 3423 3424 3425	WE1116 WE1117 WE1118 FD660 WE11119 FD661 FD662 FD663	NI N2 N3 H1 N4 H2 H3	1516/1608 1609/1652 1653/1742 1653/1742 1743/1827 1743/1827 1835/1905 1932/2017	38:51N/44:11N 38:51N/44:11N 44:25N/49:45N 44:25N/49:45N 49:45N/46:10N		63, 2/64, 4 64, 6/64, 4 64, 4 64, 5/65 64, 5/65 64, 5/65 64, 8/61, 7 61, 7/59, 4	128 124 124 124 124 124 124	214 217 217 220 220 221	7. 2 5. 6 6. 2 14. 1 5. 4 12. 3 8. 2 14. 6	10, 100 10, 800 12, 100 11, 700 14, 000 13, 100 15, 000 11, 300	186 186 213 196 229 212 208 194
705 LS	3426 3427 3428 3430 3429 3431 3432 3433 3434	WE1120 WE1121 WE1122 FD654 WE1123 FD655 FD656 FD657 FD658	N: N2 N3 H1 N4 H2 H3 H6 H5	1445/1530 1532/1616 1618/1701 1618/1701 1703/1745 1703/1749 1752/1838 1840/1926 1928/2014	24:04N/20:26N 20:16N/16:32N 20:16N/16:32N 16:22N/12:35N 16:22N/12:35N 12:35N/16:22N 16:32N/20:16N	93:40/89:37 89:26/85:35 89:26/85:35 85:24/81:43 85:24/81:43 81:43/85:24 85:35/89:26	61,5/64,5 64,5/64,4 65,2 65,2/65,5 65,2/65,5 65,5/66 66/66,5	126 123 121 121 121 121 111	207 206 206 208 208 208 208 208	6, 2 5, 8 5, 4 12, 4 5, 8 13, 2 12, 1 12, 1	8,500 5,900 4,200 5,700 6,400 6,300 5,900 6,800 6,200	146 102 101 110 107 107 144 145

Table 4.2 (continued)

C No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	ĭAS	Temp.	103	dpm/10	
	No.	No.		(Z)		(•w)	(1000 ft.)	(Kt)	(,K)	SCF	Beta	5r90
0 Marc	h 1960	Mission 48A			•							
705	3439	FD 666	H4	1713/1750	27:43N/30:25N	98:07	39.5	170	. 515	35.9	400	
LN	3440	FD 667	HZ	1752/1821	30:37N/33:20N	98:07	39.5	170	211	28, 3	≤ 510	•
	3441	FD 668	H3	1823/1856	33:33N/36:00N	98:07	39.5	170	212	32,0	≤ 270	< 9
	3442	FD 669	H4	1858/1930	36:13N/38:46N	98:07	39.5	170	213	30, 9	1,570	40
	3443	FD 670	H5	1932/2004	38:57N/41:35N	98:07	39.5	170	214	30.8	2,500	59
	3444	FD 671	H6	2007/2028	41:45N/44:23N	98:07	39.5	170	215	20. i	3,000	7:
	3435	WE1400	Ni	2040/2126	44: 23N/40: 22N	98:07	45	165	215	16. 1	3,000	6
	3436	WE1401	N2	2127/2202	40:10N/36:09N	98:07	45	165	214	12. 3	1. :80	3
	3437	WE1402	N3	2202/2243	35:57N/31:56N	98:07	45	165	211	14.5	≤ 400	
	3438	WE1403	N4	2248/2311	31: 44N/27: 43N	98:07	44.5	165	212	8, 2	≤ 420	<
718	3445	WE1060	N1	1743/1833	27:03N/32:37N	98:07	50	160	205	15.3	530	1
LN	3446	WE1061	N2	1835/1924	32;50N/37;2BN	98:07	50	160	209	14, 7	2,000	4
	3447	WE1062	N3	1926/2014	37:41N/42:30N	98:07	50	160	213	14.0	3, 900	8
	3449	FD 672	H1	1926/2014	37:41N/42:30N	98:07	50	160	213	31.0	4,000	8
	3448	WE1063	N4	2015/2104	42:43N/47:50N	98:07	50	160	216	14. 1	5,400	12
	3450	FD 673	H2	2015/2104	42:43N/47:50N	98:07	50	160	216	31. Z	5,700	12
	3451	FD 674	H3	2112/2153	47:50N/42:55N	98:07	54,5	150	217	20.8	6,700	13
	3452	FD 675	H4	2155/2235	42:42N/37:58N	98:07	55	150	213	20.4	6,600	12
	3453	FD 676	H5	2237/2316	37:45N/32:50N	98:07	55	150	208	19.9	3,600	1
	3454	FD 677	H6	2318/0017	32: 37N/27:43N	98:07	55	150	203	31.9	1,970	4
Мат	ch 1960	Mission 48B	_									
707	3455	м360	Hi	1358/1514	50; 17N/56; 16N	102:31/106:58	40	170	219	70.7	3, 700	
MN	3456	M361	H2	1516/1630	56: Z4N/61:54N	107:09/113:39	40	170	217	69, 8	3, 800	
	3457	M363	H3	1632/1744	62:02N/67:00N	113:51/122:06	40	170	214	68, 2	3, 800	
	3458	M364	H4	1754/1847	67:00N/61:50N	122:06/113:35	50	160	218	33, 5	8,500	1
	3459	M365	H5	1849/1943	61:37N/56:14N	113:18/106:56	50	160	217	34. 2	7,600	1
	3460	M366	116	1945/2041	56:00N/50:17N	106:44/102:31	50	160	218	35.4	6,600	1
2 Mai	ch 1960	Mission 51										
707	3461	м385	Н1	1400/1522	50:17N/56:20N	102:31/107:03	40	170	211	79. 1	2,500	
MN	3462	M386	HZ	1524/1637	56:28N/61:52N	107:12/113:38	40	170	213	69. B	3, 300	
	3463	M387	H3	1638/1749	62:00N/67:00N	113:50/122:08	40	170	-211	68. 1	3, 300	
	3464	M388	H4	1754/1845	67:00N/61:50N	122:08/113:35	50	160	215	32.6	6,700	1
	3465	M389	H5	1846/1938	61:38N/56:13N	113:18/106:55	50	160	215	33, 3	5,300	1
	3466	M390	H6	1939/2038	56:00N/50:17N	106:45/102:31	50	160	212	38. 3	2,700	
718	3473	WPL1028	N1	1445/1535	27: 43N/32: 40N	98:07	50	160	209	15.0	≤ 540	
LN	3474	WPL1029	N2	1537/1627	32:50N/37:45N	98:07	50	160	207	18, 1	≤ 380	
	3475	WPL1030	N3	1629/1720	37:58N/42:52N	98:07	50	160	210	15, 2	₹ 230	
	3477	FD 708	H1	1629/1720	37:58N/42:52N	98:07	50	160	210	33.5	680	
	3476	WPL1031	N4	1721/1809	43:05N/48:00N	98:07	50	160	216	13.9	1,410	
	3478	FD 709	H2	1721/1809	43:05N/48:00N	98:07	50	160	216	30.6	650	
	3479	FD 710	Н3	1816/1856	48:00N/43:05N	98:07	55	150	216	20. 1	3, 300	
	3480	FD711	114	1858/1938	42:52N/37:58N	98:07	55	150	210	20.7	2,200	
	3481	FD712	115	1940/2020	37:45N/32:50N	98:07	55	150	207	21.1	1,620	
	3482	FD713	н6	2022/2109	32:40N/27:43N	98:07	55	150	209	24. 5	1,510	
4 Ma	rch 1960	Mission 52										
707	3467	M397	111	1357/1513	50:17N/57:50N	102: 31/108: 36	61.2/64.1	129	221	23, 3	12,100	
MN	3468	M398	112	1515/1632	58:00N/64:48N	108:47/118:06	64. 1/64. 8	121	221	21.5	11,700	
	3469	M378	H3	1634/1704	64:48N/61:51N	118:06/113:37	64.8/65.5	120	222	7.9	14,500	
		M400	114	1706/1738	64: 38N/58: 20N	113:20/109:11	65.3/66	118	224	7.7	16,600	
	3470			1740/1810	58:08N/54:50N	108:56/105:40	66/66.9	116		7.1	13,700	
	3470 3471								219	8.5	15,700	
	3470 3471 3472	M401 M402	H5 H6	1815/1853	54: 38N/50: 17N	105:30/102:31	66.9/68	114	617	0.4 5	13,100	
718	3471	M401 M402	н6	1815/1853	54: 38N/50: 17N	105:30/102:31		127	213			
718 LN	3471 3472	M401					66.9/68 60.7/64.2 64.2		213	9.4 3.8	8, 600 10, 600	
	3471 3472 3483 3484	M401 M402 WPL933 WPL934	H6 N1	1815/1853 1514/1621 1622/1651	54: 38N/50: 17N 27: 43N/35: 04N	105:30/102:31 98:07 98:07	60.7/64.2 64.2	127	213 214	9.4 3.8	8,600 10,600	
	3471 3472 3483 3484 3487	M401 M402 WP1.933 WPL934 FD 720	H6 N1 N2 111	1815/1853 1514/1621 1622/1651 1652/1737	54: 38N/50: 17N 27: 43N/35: 04N 35: 11N/38: 37N 38: 51N/44: 11N	105:30/102:31 98:07 98:07 98:07	60.7/64.2 64.2 64.2/64.6	127 123 122	213 214 215	9.4 3.8 13.0	8,600 10,600 11,900	
	3471 3472 3483 3484	M401 M402 WPL933 WPL934 FD720 WPL936	H6 N1 N2	1815/1853 1514/1621 1622/1651 1652/1737 1738/1827	54: 38N/50: 17N 27: 43N/35: 04N 35: 11N/38: 37N 38: 51N/44: 11N 44: 25N/49: 45N	98:07 98:07 98:07 98:07 98:07 98:07	60.7/64.2 64.2 64.2/64.6 64.6/65.3	127 123	213 214 215 216	9.4 3.8 13.0 5.9	8,600 10,600 11,900 12,800	
	3471 3472 3483 3484 3487 3486 3488	M401 M402 WPL933 WPL934 FD 720 WPL936 FD 721	H6 N1 N2 H1 N4	1815/1853 1514/1621 1622/1651 1652/1737 1738/1027 1738/1827	54: 38N/50: 17N 27: 43N/35: 04N 35: 11N/38: 37N 38: 51N/44: 11N	98:07 98:07 98:07 98:07 98:07 98:07 98:07	60.7/64.2 64.2 64.2/64.6 64.6/65.3 64.6/65.3	127 123 122 120	213 214 215 216 216	9.4 3.8 13.0 5.9	8,600 10,600 11,900 12,800 15,100	
	3471 3472 3483 3484 3487 3486 3488 3489	M401 M402 WPL933 WPL934 FD720 WPL936 FD721 FD722	H6 N1 N2 H1 N4 H2	1815/1853 1514/1621 1622/1651 1652/1737 1738/1827 1738/1827 1833/1918	54: 38N/50: 17N 27: 43N/35: 04N 35: 11N/38: 37N 38: 51N/41: 11N 44: 25N/49: 45N 44: 25N/49: 45N 49: 45N/44: 25N	98;07 98;07 98:07 98:07 98:07 98:07 98:07 98:07	60.7/64.2 64.2 64.2/64.6 64.6/65.3	127 123 122 120 120	213 214 215 216 216 216	9.4 3.8 13.0 5.9 13.5	8,600 10,600 11,900 12,800 15,100 16,200	
	3471 3472 3483 3484 3487 3486 3488 3489 3490	M401 M402 WPL933 WPL934 FD720 WPL936 FD721 FD722 FD723	H6 N1 N2 H1 N4 H2 H3	1815/1853 1514/4621 1622/1651 1652/1737 1738/1827 1738/1827 1833/1918 1920/2005	54:38N/50:17N 27:43N/35:04N 35:41N/38:37N 38:51N/44:41N 44:25N/49:45N 44:25N/49:45N 49:45N/44:25N 44:11N/38:51N	105: 30/102: 31 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07 98: 07	60.7/64.2 64.2 64.2/64.6 64.6/65.3 64.6/65.3 65.3/66.4 66.4/67.4	127 123 122 120 120 117	213 214 215 216 216 216 216	9.4 3.8 13.0 5.9 13.5 11.2	8,600 10,600 11,900 12,800 15,100 16,200 12,600	
	3471 3472 3483 3484 3487 3486 3488 3489	M401 M402 WPL933 WPL934 FD720 WPL936 FD721 FD722	H6 N1 N2 H1 N4 H2 H3	1815/1853 1514/1621 1622/1651 1652/1737 1738/1827 1738/1827 1833/1918	54: 38N/50: 17N 27: 43N/35: 04N 35: 11N/38: 37N 38: 51N/41: 11N 44: 25N/49: 45N 44: 25N/49: 45N 49: 45N/44: 25N	98;07 98;07 98:07 98:07 98:07 98:07 98:07 98:07	60.7/64.2 64.2 64.2/64.6 64.6/65.3 64.6/65.3	127 123 122 120 120	213 214 215 216 216 216 216 215	9.4 3.8 13.0 5.9 13.5	8,600 10,600 11,900 12,800 15,100 16,200	
	3471 3472 3483 3484 3487 3486 3488 3489 3490	M401 M402 WP1.933 WP1.934 FD 720 WP1.936 FD 721 FD 722 FD 723 FD 724 FD 725	H6 N1 N2 H1 N4 H2 H3 H4	1815/1853 1514/4621 1622/1651 1652/1737 1738/1827 1738/1827 1833/1918 1920/2005 2006/2055 2057/2142	54:38N/50:17N 27:43N/35:04N 35:14N/36:37N 38:51N/44:11N 44:25N/49:45N 44:25N/49:45N 49:45N/44:25N 44:11N/36:51N 38:37N/33:17N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	60.7/64.2 64.2 64.2/64.6 64.6/65.3 64.6/65.3 65.3/66.4 66.4/67.4 67.4/68.1 68.1/69.1	127 123 122 120 120 117 115	213 214 215 216 216 216 215 215 214 213	9.4 3.8 13.0 5.9 13.5 11.2 10.7 11.1	8,600 10,600 11,900 12,800 15,100 16,200 12,600 14,600 13,300	
1.N 705	3471 3472 3484 3484 3486 3488 3489 3490 3491 3492	M401 M402 WPL933 WPL934 FD 720 WPL936 FD 724 FD 723 FD 724 FD 725 WE1592	H6 N1 N2 H1 N4 H2 H3 H4 H5 H6	1815/1853 1514/4621 1622/1651 1652/1737 1738/1827 1738/1927 1833/1918 1920/2005 2006/2055 2057/2142	54:38N/50:17N 27:43N/35:04N 35:11N/38:37N 38:51N/44:11N 44:25N/49:45N 44:25N/49:45N 49:45N/44:25N 38:37N/33:17N 33:03N/27:43N 27:43N/12:35N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	60.7/64.2 64.2 64.2/64.6 64.6/65.3 64.6/65.3 65.3/66.4 66.4/67.4 67.4/68.1 68.1/69.1	127 123 122 120 120 117 115 113	213 214 215 216 216 216 216 217 217 213	9.4 3.8 13.0 5.9 13.5 11.2 10.7 11.1 9.4	8,600 10,600 11,900 12,800 15,100 16,200 12,600 14,600 13,300	
LN	3471 3472 3483 3484 3487 3486 3489 3490 3491 3492	M401 M402 WPL933 WPL934 FD720 WPL936 FD722 FD723 FD724 FD725 WE1592 FD725	H6 N1 N2 H1 N4 H2 H3 H4 H5	1815/1853 1514/1621 1622/1651 1652/1651 1738/1827 1738/1827 1833/1918 1920/2005 2006/2055 2057/2142 1414/1748 1619/1703	54:38N/50:17N 27:43N/35:04N 35:14N/36:37N 38:51N/44:11N 44:25N/49:45N 44:25N/49:45N 49:45N/44:25N 44:11N/36:51N 38:37N/33:17N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07/81:43	60.7/64.2 64.2 64.2/64.6 64.6/65.3 64.6/65.3 65.3/66.4 66.4/67.4 67.4/68.1 68.1/69.1	127 123 122 120 120 117 115 113	213 214 215 216 216 216 215 213 213 213	9.4 3.8 13.0 5.9 13.5 11.2 10.7 11.1 9.4 21.6	8,600 10,600 11,900 12,800 15,100 16,200 12,600 14,600 13,300	
1.N 705	3471 3472 3484 3487 3486 3489 3490 3491 3492 3493 3493	M401 M402 WPL933 WPL934 FD 720 WPL936 FD 724 FD 723 FD 724 FD 725 WE1592	H6 N1 N2 H1 N4 H2 H3 H4 H5 H6	1815/1853 1514/4621 1622/1651 1652/1737 1738/1827 1738/1927 1833/1918 1920/2005 2006/2055 2057/2142	54:38N/50:17N 27:43N/35:04N 35:14N/36:37N 38:54N/44:14N 44:25N/49:45N 44:25N/49:45N 44:25N/49:45N 44:11N/38:51N 38:37N/33:17N 33:03N/27:43N 27:43N/12:35N 20:16N/16:32N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	60.7/64.2 64.2 64.2/64.6 64.6/65.3 64.6/65.3 65.3/66.4 66.4/67.4 67.4/68.1 68.1/69.1	127 123 122 120 120 117 115 113 108	213 214 215 216 216 216 215 214 213 213 214 213	9.4 3.8 13.0 5.9 13.5 11.2 10.7 11.1 9.4	8,600 10,600 11,900 12,800 15,100 16,200 12,600 14,600 13,300	

AC No.	HASP	Air Force	Filter	Time	Latitude	Longitude	Altitude	IAS	Temp.	103	dpm/10 Total	
101	No.	No.		(Z)		(.M)	(1000 ft. )	(Kt)	(*K)	<u> </u>	Beta	8r ⁹⁰
Marc	1-1960	Mission 53										
								480			2 100	
714	3498	W1°2405	<u>N</u> 1	1500/1716	50:17N/38:04N	102:31/100:34	40 40	170 170	212 213	57.9 189.9	2, 400	48
MS	1502 1503	FD 217 FD 218	144 142	1500/1820 1828/2129	50:17N/32:29N 32:29N/50:17N	102:34/100:50 100:50/102:31	45	165	213	142.9		
	3,101	WP2408	N4	1928/2129	38:17N/50:17N	100:36/102:31	45	165	212	43.0	3,700	62
705	3504	WE1604	N1	1508/1554	27:43N/33:03N	98:07	60 60	135 135	203 205	8.3	4, 900	86 107
LN	3503	W£1605	N2	1556/1641	33:17N/38:37N	98:07		135	207	8.0	6, 300	
	3506 3508	WE1606 FD 726	N3 H1	1643/1730 1643/1730	38:51N/44:11N 38:51N/44:11N	98:07 98:07	60 60	135	207	8.3 18.7	7,000 7,800	132 136
	3507	WE1607	N4	1732/1819	44:25N/49:45N	98:07	60	135	209	8, 2	9, 600	142
	3509	FD 727	112	1732/1819	44:25N/49:45N	98:07	60	135	209	18,5	10,000	145
	3510	FD 728	H3	1825/1910	49:45N/44:25N	98:07	65	121	216	12, 3	11, 400	218
	3511	FD729	H4	1912/1956	44:11N/38:51N	98:07	65	121	210	12.5	10,700	203
	3512	FD 730	H5	2000/2043	38:37N/33:17N	98:07	65	121	208	12, 4	9, 900	184
	3513	FD 734	Н6	2046/2128	33:03N/27:43N	98:07	65	121	202	12.6	7,700	158
718	3514	WPL1132	N1	1445/1528	27:43N/24:13N	98:07/93:51	60	135	205	7.6	1,660	30
LS	3514	FD732	H4	1445/1528	27:43N/24:13N	98:07/93:51	60	135	201	17.7	1,610	31
LG	3515	WPL1133	N2	1529/1612	24:04N/20:26N	93:40/89:37	60	135	202	7.8	1,470	24
	3516	WPL1134	N3	1614/1659	20:16N/16:32N	89:26/85:35	60	135	201	8.2	1,400	35
	3517	WFL1135	N4	1703/1755	16:22N/12:35N	85:24/81:43	60	135	202	9. 1	2,300	49
	3519	FD734	H3	1757/1845	12:35N/16:22N	81:43/85:24	65	121	206	14, 0	2,800	63
	3520	FD735	H4	1847/1933	16:32N/20:16N	85:35/89:26	65	121	205	13.5	3,400	84
	3521	FD736	H5	1935/2020	20:26N/24:04N	89: 37/93: 40	65	121	206	13. 1	4,600	94
1 Mar	ch 1960	Mission 54										
707	3523	FD744	H1	1515/1620	29:43N/34:18N	98:07	50	160	216	41.4	1,450	33
LN	3524	FD745	H2	1622/1724	34:32N/41:20N	98:07	50	160	217	39. 3	2,300	51
	3525	FD746	H3	1729/1827	41:34N/48:00N	98:07	50	160	217	37.1	3,900	73
	3526 3527	FD747 FD748	H4 H5	1836/1932 1935/2140	48:00N/41:34N 41:20N/34:32N	98:07 98:07	55 55 ·	150 150	217 217	28, 2 62, 4	3,800 3,800	82 67
5 Apri	1 1960	Mission 55										
714	3529	M01	N1	1442/1535	50:20N/55:30N	102:30/106:20	55	155	243	10.9	9,200	158
MN	3530	M02	NZ	1539/1635	55:45N/60:50N	106: 30/112: 15	55	155	238	11.9	5, 300	101
	3531	M03	N3	1636/1723	61:00N/66:10N	112:25/120:30	55	155	228	10.5	8,400	155
	3533	M419	Hi	1636/1723	61:00N/66:10N	112:25/120:30	55	155	228	23. 1	9, 800	192
	3532	M04	N4	1726/1825	66:20N/71:00N	120:50/132:20	55	155	233	12.9	9, 200	168
	3534	M420	H2	1726/1825	66:20N/71:00N	120:50/132:20	55	155 135	233	28.2	10,500	188
	3535 3536	M421 M422	H3 H4	1831/1912 1923/2015	71:00N/66:42N	132:20/121:35	60 60	135	247 243	12. 9 16. 8	14, 600 13, 400	256 261
	3537	M423	H5	2017/2115	66:00N/61:45N 61:25N/56:15N	113:00/107:00	60	135	243	18.7	13, 300	221
	3538		H6	2120/2207	56:00N/50:20N	106:45/102:30	60	135	248	14.7	13, 400	243
717	3539		N1	1359/1453	50:20N/55:30N	102: 30/106:25	57.7/63	132		6.7	12,600	175
MN	3540		NZ	1456/1553	56:00N/61:00N	106; 40/112; 40	63/64, 1	127	253	6.2	13, 200	200
	3541 3542		N3 N4	1554/1647 1650/1741	61:20N/66:20N 66:30N/71:00N	112:50/120:50	64.1/64.5 64.5/65.6	124 124	251 248	5.5 5.2	12,500 11,800	213 194
705	3543		N1	1130/1219	15:00N/09:25N	67:00	60	135		8,8	1,830	36
RS	3544		N2	1221/1310	09:11N/03:37N	67:00	60	135		8.9	. 1,030	27
	3545 3545		N3	1312/1400	03:23N/02:11 S	67:00	60	135 135		8.6	940	20 21
	3547 3546		H1 N4	1312/1400 1402/1450	03:23N/02:11S 02:25S/08:00S	67:00 67:00	60 60	135		19.6 8.5	1,020 840	1
	3548		H2	1402/1450	02:25 8/08:00 8	67:00	60	135		19.2	890	3
	3549		H3	1458/1547	08:00 S/02:25 S	67:00	65	121		14.0	3, 100	7:
	3550		H4	1549/1635	02:11 S/03:23N	67:00	65	121		13.2	3, 900	8
	355		H5	1638/1728	03:37N/09:11N	67:00	65	121		14.4	4,000	10
	355		Н6	1730/1818	09:25N/15:00N	67:00	65	121		13.9	5, 100	9
718	355		N1	1100/1150	15:00N/09:25N	67:00	64.1/64.7	122		6,5		10
RS	355		NZ	1152/1241	09:11N/03:37N	67:00	64.7/65.8	120		6. 1		7
	3559		N3	1243/1330	03:23N/02:11 S		65.8/66.3	118		5.5		8
	355		H1	1243/1330	03:23N/02:11 S		65.8/66.3	118		12, 4		10
	35:51		N4	1332/1424	02:25 8/08:00 8		66, 3/67, 1	115		5.5		9
	355: 355:		H2	1332/1424	02:25 8/08:00 8		66.3/67.1	115		12.8		8
	356		H3 H4	1428/1517 1519/1608	08:00 S/02:25 S 02:11 S/03:23N		67.2/67.5 67.5/67.9	114		11.6 11.6		11
	356		H5	1610/1658			67.9/68.7			10.6		14
	356		H6	1701/1742			68.8/68.6					16
	250	- 10.03	110		0 7: 00 141 13: 00 M	37.00	401010010	-11	- 610	0. 1	0, 200	3.

Table 4. 2 (continued)

							_			dpm/	1000 SCF
AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft.)	(Kt) (*K)	. 10 ³ SCF	Total Bota	Sr ⁹⁰
7 April	1960 Mis	ston 5.5									
714 MN	3585 3587 3588 3589 3589 3590 3581 3582 3583 3584	M425 M426 M427 M428 M429 M430 M13 M14 M15	H1 H2 H3 H4 H5 H6 N1 N2 N3	1430/1504 1506/1543 1545/1621 1623/1700 1702/1740 1743/1821 1829/1907 1909/1947 1950/2032 2034/2111	50;20N/53;15N 53;30N/56;16N 55;22N/59;10N 59;20N/62;14N 62;30N/65;10N 68;30N/64;12N 68;30N/64;12N 68;30N/64;12N 59;42N/55;56N 54;50N/50;16N	102:30/104:25 104:40/107:00 107:10/110:05 :10:20/114:10 114:30/118:45 119:10/124:15 124:20/117:10 117:05/111:00 110:05/105:50 105:40/102:30	45,5 45 45 45 45 45 55 55	165 220 165 222 165 215 165 215 165 228 165 228 155 230 155 228 155 225 155 221	25.6 28.1 28.1 28.9 28.0 28.0 8.4 8.5 9.6	3, 700 3, 200 2, 700 1, 380 1, 320 2, 100 8, 800 8, 300 8, 300 8, 900	66 72 47 28 27 41 160 149 156
715 MN	3591 3595 3592 3593 3596 3594	M09 M431 M10 M11 M432 M12	N1 H1 N2 N3 H2 N4	1356/1541 1356/1729 1541/1729 1742/1913 1742/2053 1915/2053	50:20N/60:32N 50:20N/69:52N 60:42N/69:52N 69:30N/61:10N 69:30N/50:20N 60:50N/50:20N	102:30/111:45 102:30/129:00 112:10/129:00 128:00/112:35 128:00/102:30 112:15/102:30	60 60 60 65 65	135 225 135 225 135 230 121 230 121 227 121 227	16.7 76.5 16.6 10.1 49.2 11.1	10, 300 11, 200 11, 100 10, 900	175 175 170 
705 RS	3563 3564 3565 3566 3568 3569 3570 3571	WE1656 WE1657 WE1658 WE1659 FD768 FD769 FD770 FD771	N1 N2 N3 N4 H3 H4 H5 H6	1130/1219 1221/1311 1312/1403 1403/1428 1436/1510 1512/1557 1600/1642 1644/1732	15:00N/09:25N 09:11N/03:37N 03:23N/02:11 S 02:25 5/05:15 S 05:15 S/00:28 S 00:12 S/05:20 N 05:34N/10:44N 10:51N/16:14N	67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	60 60 60 65 65 65 65	134 203 135 204 134 204 135 205 124 209 124 208 124 208 124 207	8.7 9.0 9.1 4.3 9.9 13.6 12.6	2, 600 1, 280 890 800 2, 900 2, 900 3, 400 5, 000	57 29 20 20 61 83 73
718 RS	3572 3573 3574 3575 3577 3578 3579 3580	WE1712 WE1713 WE1714 WE1715 FD774 FD775 FD776 FD777	N1 N2 N3 N4 H3 H4 H5	1101/1150 1153/1241 1243/1331 1333/1423 1426/1517 1518/1607 1610/1657 1659/1746	15:00N/09:25N 09:11N/03:37N 03:23N/02:115 02:25 \$/08:005 02:05 02:25 \$ 02:11 \$/03:23N 03:37N/09:11N 09:25N/15:00N	67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	64/64.8 64.8/65.5 65.5/66 66/66.5 66.5/67.1 67.1/67.7 67.7/68.3 68.3/69.7	122 207 121 207 119 208 118 209 116 209 115 208 113 207 110 207	6.4 6.1 5.8 5.8 12.8 12.1 10.9	4,500 3,200 3,200 4,200 4,400 1,500 5,000 7,800	90 67 72 85 95 113 113
12 Apri	1 1960 M	ission 57									
717 MN	3605 3606 3607 3608 3609 3610 3601 3602 3603 3604	M443 M444 M445 M446 M447 M448 M17 M18 M19 M20	H1 H2 H3 H4 H5 H6 N1 N2 N3	1356/1433 1435/1511 1513/1545 1547/1621 1623/1659 1701/1734 1740/1815 1817/1902 1906/1947 1950/2030	50:25N/53:20N 53:30N/56:06N 56:20N/59:00N 59:10N/61:40N 61:50N/64:30N 67:00N/63:10N 62:55N/59:00N 58:50N/54:50N 54:35N/50:25N	102:30/104:30 104:45/106:50 107:00/109:55 110:05/113:35 113:45/117:40 117:55/122:10 122:10/115:35 115:15/109:55 109:45/105:35 105:25/102:30	40, 2/38, 6 38, 2/39, 7 40/39, 6 39, 6/39, 5 39, 6/39, 9 39, 9/39, 4 40/41, 6 41, 6/41, 2 41, 5/40, 6 40, 9/39, 1	170 224 170 225 170 226 170 228 170 230 170 239 170 227 170 224 170 222	33.8 32.7 28.5 31.1 32.6 29.7 13.8 17.6 15.9 16.2	2, 600 3, 200 3, 200 3, 000 3, 100 3, 100 2, 900 2, 200 2, 500 1, 350	58 62 68 72 57 48 50 40 51
715 MS	3615 3616 3617 3618 3619 3620 3611 3612 3613 3614	M437 M438 M439 M440 M441 M442 M21 M22 M23 M24	H1 H2 H3 H4 H5 H6 N1 N2 N3 N4	1433/1504 1506/1539 1541/1611 1613/1702 1704/1736 1738/1811 1816/1857 1857/1941 1943/2030 2032/2112	32:20N/36:55N 37:05N/41:20N 41:30N/45:45N	102:30/102:00 102:06/101:30 101:25/100:55 100:50/100:30 100:25/100:05 100:00/99:40 99:40/100:15 100:20/100:50 100:25/101:45	40 40 40,5 40,5 40,5 50 50	170 218 170 218 172 210 174 211 172 211 174 214 165 209 166 210 164 212 165 218	28.9 30.8 29.4 47.7 30.6 31.7 12.2 13.8 14.3	2,600 1,670 580 660 1,490 1,350 2,900 2,300 1,930 2,800	66 40 14 14 27 34 72 56 56 73
705 LN	3621 3622 3623 3625 3624 3626 3627 3628 3629 3630	WPL1112 WPL1113 WPL1114 FD783 WPL1115 FD783 FD785 FD786 FD787	N1 N2 N3 H1 N4 H2 H3 H4 H5	1443/1529 1531/1618 1620/1707 1620/1707 1709/1755 1709/1755 1800/1845/1927 1927/2011 2013/2058	32:50N/37:28N 37:41N/42:30N 37:41N/42:30N 42:43N/47:50N 42:43N/47:50N 47:50N/47:55N 47:50N/37:58N 37:45N/32:50N	98:07 98:07 98:07	50 50 50 50 50 50 55 55 55	160 208 160 210 160 214 160 214 160 216 160 216 150 216 150 214 150 210 150 208	15.8 14.0 13.6 30.2 13.3 29.3 21.6 21.3 21.8 23.6	330 580 840 940 1,560 1,850 4,600 4,200 3,000	8 9 15 20 33 34 122 77 63 40

Table 4, 2 (continued)

											dpm/10	00 SCF
AC No.	HASP No.	Air Force No.	Filter	Time (2)	Latitude	Lor.gitude	Attitude (1000 ft.)	1 AS (Kt)	Temp. (*K)	10 ³ SCF	Total Bet.1	Sr 90
14 April	1960 Mic	sion 58										
718 LN	3631 3632 3633 3635 3634 3636 3637 3638 3639 3640	WPL1120 WPL1121 WPL1122 FD806 WPL1123 FD807 FD808 FD809 FD810 FD810	N1 N2 N3 H1 N4 H2 H3 H4 H5	1517/1603 1605/1651 1653/1739 1653/1739 1741/1826 1741/1826 1830/1916 1918/2004 2006/2052 2054/2140	27:43N/33:03N 33:17N/38:37N 38:51N/44:11N 38:51N/44:11N 44:25N/49:45N 44:25N/49:45N 44:5N/44:45N 49:45N/44:25N 44:11N/38:51N 38:37N/33:17N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	63 63,5/64,5 64,5/65 65,65 65 65/66 66/67 67/67,5 67,5/68,5	123 122 122 120 120 117 115	213 214 216 216 219 219 219 219 216 214 213	5, 7	9,500 10,400 12,200 12,200 12,500 12,500 12,800 14,300 11,100 12,400 13,600	175 202 191 226 206 226 245 213 209
705 LS	3641 3642 3643 3645 3644 3646 3647 3648 3649 3650	WPL1116 WPL1117 WPL1118 FD800 WPL1119 FD801 FD802 FD803 FD804 FD804 FD805	N1 N2 N3 H1 N4 H2 H3 H4 H5	1452/1532 1532/1617 1618/1711 1618/1711 1711/1754 1712/1754 1815/1849 1852/1934 1935/2023 2024/2100	27:43 N/24: 13 N 24:04 N/20:26 N 20:16 N/16:32 N 20:16 N/16:32 N 16:22 N/12:35 N 16:22 N/12:35 N 12:35 N/16:22 N 16:32 N/20:16 N 20:26 N/24:04 N 24:13 N/27:43 N	98:07/93:51 93:40/89:37 89:26/85:35 89:26/85:35 85:24/81:43 85:24/81:43 85:24/81:43 81:43/85:24 85:35/89:26 89:37/93:40 93:51/98:07	62, 4/64, 4 64, 4/65, 4 65, 4/66 65, 4/66 66/66, 8 66, 8/67, 1 67, 2/67, 5 68/68, 5	122 120 118 118 118 118 117 116 114 112	210 209 208 208 208 208 208 208 208 209 210	5. 3 5. 6 6. 2 14. 3 5. 0 11. 0 8. 6 10. 3 11. 1 8. 1	5, 200 6, 100 6, 500 6, 600 4, 600 5, 900 6, 000 8, 100 9, 700	151 161 136 137 112 108 147 167 191 217
19 Apri	1 1960 M	ission 59A									2 702	42
714 LN	3651 3652 3653 3654 3655 3656 3657 3658 3659	WE1128 WE1129 WE1130 WE1131 FD813 FD814 FD815 FD816 FD817	N1 N2 N3 N4 H2 H3 H4 H5	1520/1607 1609/1656 1658/1744 1746/1833 1746/1833 1841/1927 1928/2014 2016/2102 2104/2145	27:43N/33:03N 38:51N/44:11N 44:25N/49:45N 44:25N/49:45N 44:45N/44:25N 44:11N/38:51N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07 98:07	60 60 60 60 65 65 65	135 135 135 135 135 121 121 121 121	210 214 217 219 219 220 219 215 2,13	8, 1 8, 0 7, 6 7, 7 17, 4 12, 3 12, 4 12, 7	2, 700 6, 200 9, 900 10, 600 12, 100 12, 000 11, 100 12, 600 8, 500	104 160 175 216 230 194 214
705 LS	3660 3661 3662 3663	WE1124 WE1125 WE1126 WE1127	N1 N2 N3 N4	1447/1532 1534/1619 1621/1706 1708/1756	27:43N/24:13N 24:04N/20:26N 20:16N/16:32N 16:22N/12:35N	98:07/93:51 93:40/89:37 89:26/85:35 85:24/81:43	60 60 60	135 135 135 135	206 205 203 202	7.9 8.0 8.1 8.7	2, 900 2, 500 2, 600 3, 000	59 47 59 55
20 Apr	11 1960 1	dission 59B										
715 MN	3664 3665 3666 3667 3668 3669	M455 M456 M457 M458 M459 M460	H1 H2 H3 H4 H5 H6	1426/1502 1505/1543 1545/1618 1621/1658 1700/1735 1737/1811	50;20N/53;30N 53;45N/56;50N 57;00N/59;50N 59;55N/62;40N 62;50N/65;20N 65;30N/68;00N	102;30/104;40 104;50/107;30 107;45/110;50 111;10/114;50 115;00/119;10 119;20/124;20	45 45 45	165 165 165 165 165	219 220 221 222 223 225	28.0 29.0 25.1 28.1 26.4 25.4	3, 100 3, 000 3, 300 3, 400 3, 500 3, 500	70 79 76 72 82 88
717 MN	3670 3671 3672 3674 3673 3675 3676 3677 3678 3679	M34 M35 M36 M449 M37 M450 M451 M452 M453 M454	N1 N2 N3 H1 N4 H2 H3 H4 H5	1355/1449 1451/1542 1544/1637 1544/1637 1638/1725 1638/1725 1735/1823 1826/1916 1918/2012 2014/2106	66:30N/71:00N 71:00N/66:40N 66:30N/61:35N 61:20N/56:10N	121:30/132:30 132:30/121:20 121:00/113:20 113:00/106:55	60 60 60 60 60 60 60 61.7/64 64.2/65 65/65.3	136 136 137 137 136 136 123 122 123	231 228 223	9, 0 8, 2 8, 5 19, 1 7, 3 16, 5 13, 3 13, 0 14, 6 13, 8	10,000 7,500 9,300 13,000 9,000 10,400 13,700 10,700 9,800 9,500	159 141 160 175 165  258 193 164 170
21 Ap	ril 1960	Mission 60	_									
705 LN	3684 3685 3686 3687 3688 3680 3681 3682 3683		H1 H2 H3 H4 H5 H6 N1 N2 N3 N4	1518/1548 1550/1622 1622/1653 1664/1724 1726/1751 1757/1821 1831/1911 1912/1951 1954/2031 2039/212	30:31N/33:09N 33:20N/35:57N 4 36:08N/38:46N 5 38:57N/41:34N 9 41:45N/44:23N 44:23N/40:22N 2 40:10N/36:09N 7 35:57N/31:56N	98:07 98:07 1 98:07 4 98:07 4 98:07 4 98:07 4 98:07	40 40 40 40 40 40 45 45 45	170 170 170 170 170 170 160 160 160 160	0 211 0 212 0 219 0 219 0 219 5 218 5 217 5 211 5 200	28. 9 28. 8 38. 6 27. 9 27. 0 29. 8 13. 9 15. 3 16. 2	390 400 200 420 570 850 910 1,130	8 4 3 < 2 9 12 20 23 23
71 <b>4</b> LN	3690 3691 3692 3694 3693 3695 3697 3697	WE1141 WE1142 FD824 WE1143 FD825 FD826 FD827 FD828	N1 N2 N3 H1 N4 H2 H3 H4 H5	1758/184 1843/192 1929/201	3 32:50N/37:451 1 37:58N/40:521 1 37:58N/40:521 2 41:05N/47:171 2 41:05N/47:171 2 48:00N/43:051 7 42:52N/37:581 5 37:45N/32:501	N 98:07 N 98:07 N 98:07 N 98:07 N 98:07 N 98:07 N 98:07	50 50 50 50 50 50 55 55 55	16 16 16 16 16 16 15 15	0 213 0 216 0 216 0 217 0 217 0 217 0 217 0 219 0 215 215	14.5 14.0 8.1 17.8 17.2 38.0 22.9 23.1 24.0 17.4	1,510 3,200 3,700 4,000 3,700 3,400 3,700 3,200 3,100 980	

Table 4,2 (continued)

											dpm/1	000 SC F
C No.	HASP No.	Air Force No.	Filter	Time (2.)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS (Kt)	Temp, (*K)	10 ³ SCF	Total Beta	Sr ⁹⁽⁾
April	1960 M	ission 61A										
15 N	3704 3701 3702 3705 3706 3707 3708 3709	FD842 WE1149 WE1150 FD843 FD844 FD845 FD846 FD847	H1 N2 N3 H2 H3 H4 H5	1513/1554 1601/1647 1648/1733 1735/1820 1825/1910 1912/1959 2001/2048 2050/2139	27:43N/33:03N 33:17N/38:37N 38:51N/44:11N 44:25N/49:45N 49:45N/44:25N 44:11N/38:51N 38:37N/33:17N 33:03N/27:43N	98:07 98:07 98:07 98:07 98:07 98:07 98:07	62/64.3 64.5/65.5 65.5/66.3 66.3/66.8 66.6/67.3 67.3/67.7 67.7/68.8 68.7/69.5	123 120 119 118 116 114 112	214 215 218 220 220 218 215 214	13.9 5.5 5.1 10.8 10.4 10.5 10.2	6, 400 8, 200 8, 600 13, 900 12, 800 12, 700 11, 700 12, 200	142 173 170 229 209 191 198
14 S	3710 3711 3712 3714 3715 3716 3717 3718	WE1144 WE1145 WE1146 FD836 FD838 FD839 FD840 FD841	NI NZ N3 H1 H3 H4 H5	1445/1531 1536/1619 1621/1707 1621/1707 1709/1846 1848/1933 1935/2020 2022/2102	27;43N/24:13N 24:04N/20:26N 20:16N/16:32N 16:22N 16:32N/20:16N 20:26N/24:04N 24:13N/27:43N	98:07/93:51 93:40/89:37 89:26/85:35 89:26/85:35 85:24 85:35/89:26 89:37/93:40 93:51/98:07	62, 7/64, 1 64, 5/65, 4 65, 5/66 65, 5/66 66, 1/67, 7 67, 7/67, 8 67, 8/68, 9 68, 8	123 122 119 119 115 113 112	211 210 208 208 206 206 210 211	6.0 5.4 5.5 12.5 24.3 10.6 10.1 8.6	6, 900 9, 300 9, 400 9, 800 9, 300 12, 300 11, 600 10, 300	141 156 173 201 189 232 176
7 April	1960 M	lission 61B										
718 MN	3737 3738 3739 3741 3742 3743 3744 3745 3746	M46 M47 M48 M467 M468 . M369 M470 . M471 M472	N1 N2 N3 H1 H2 H3 H4 H5	1425/1517 1524/1621 1621/1709 1621/1709 1713/1802 1806/1858 1900/1954 1956/2039 2041/2143	50;20N/55;56N 56;06N/61;20N 61;30N/66;30N 61;30N/66;30N 66;40N/71;00N 71;00N/66;20N 66;10N/61;10N 61;00N/56;10N 56;00N/50;20N	102:30/106:40 106:50/113:00 113:20/121:10 113:20/121:10 121:30/122:30 122:30/120:50 120:30/112:50 112:30/106:50 106:40/102:30	55 55.5 55.5 55.5 60 60 60.5	155 155 155 155 155 135 135 135 135	221 221 221 221 222 223 214 222 220	12. 2 13. 3 10. 9 23. 8 24. 4 18. 9 20. 6 15. 7 22. 6	5, 300 4, 900 5, 500  6, 300 9, 200 8, 700 11, 600 9, 800	48 49 100  114 187 180 203 203
717 MN	3733 3734 3735 3736	M50 M51 M52 M53	N1 N2 N3 N4	1358/1451 1453/1548 1550/1644 1646/1740	50:20N/55:40N 56:08N/61:20N 61:30N/66:30N 66:40N/71:00N	102:30/106:40 106:50/113:00 113:20/121:20 121:30/132:30	53.3/62.8 62.8/63.9 64/65 65.1/65.6	138 126 124 121	220 223 224 224	8.8 7.2 6.5 6.1	7,500 10,400 9,600 10,700	144 118 148 164
28 Apri	1 1960	Mission 62A	<b>-</b>									
716 LN	3719 3720 3721 3723 3722	WE1160 WE1161 WE1162 FD867 WE1163	N1 N2 N3 H1 N4	1519/1556 1557/1636 1640/1720 1640/1740 1723/1801	27:43N/32:36N 32:47N/37:42N 37:53N/42:42N 37:53N/45:11N 42:53N/47:40N	98:07 98:07 98:07 98:07 98:07	60 60 60 60	137 136 136 136 136	219 218 219 219 220	6. 2 6. 5 6. 7 22. 4 6. 3	3, 900 5, 100 7, 300 7, 900 7, 700	76 103 124 
714 1.S	3724 3725 3726 3728 3729 3730 3731 3732	WE1156 WE1157 WE1158 FD861 FD862 FD864 FD865 FD866	N1 N2 N3 H1 H2 H4 H5 H6	1443/1526 1528/1612 1613/1656 1613/1656 1658/1741 1745/1911 1912/1953 1955/2035	27;43 N/24;24 N 24;14 N/20;45 N 20;34 N/17;05 N 20;34 N/17;05 N 16;53 N/13;22 N 13;22 N/20;40 N 20;50 N/24;20 N 24;30 N/27;43 N	98:07/94:05 93:53/89:57 89:45/86:05 89:45/86:05 85:55/82:30 82:30/89:52 90:02/93:58 94:10/98:07	60 60 60 60 60 65 65	135 135 135 135 135 121 121	210 209 207 207 206 211 214 215	7,4 7,7 7,6 17,1 17,2 24,3 11,4	2, 900 1, 040 1, 060 1, 170 1, 160 8, 300 9, 100 9, 300	51 23 23 27 22 196 201 203
30 Apr	11 1960	Mission 62B	_									
718 MN	3754 3756 3757 3753	M473 M475 M476 M59	H1 H3 H4 N2	1426/1502 1640/1720 1729/1818 1945/2115	50:20N/54:10N 48:20N/46:40N 48:10N/47:40N 48:30N/48:20N	102:30/105:10 103:30/103:30 102:45/103:30 102:40/104:00	45 50	165 165 160 1 <b>24</b>	226 223 222 222	27.2 30.2 30.4 11.2	5, 900 3, 500 6, 700 11, 800	103 67 113 186
717 MN	3747 3748 3749 3750 3751	M479 M480 M481 M482 M483	H1 H2 H3 H4 115	1406/1510 1512/1629 1643/1751 1754/1910 1931/2032	50:20N/56:00N 56:05N/65:50N 65:50N/58:40N 58:30N/50:20N 48:21N	106:50/119:50 119:50/109:40	60 65	138 138 124 124 135	217 221	24.4 29.5 19.2 21.0 22.3	13, 900 21, 000 20, 000 14, 300 9, 200	139 181 201 178 183

Table 4.2 (continued)

							-				dpm/1	000 SCF
AC No.	HASP No.	Air Forca No,	Filter	Time (2)	Latitude	Longitude (*W)	Altitude (1000 ft.)		Temp, (*K)	.10 ³	Total Beta	Sr ⁹⁰
3 May	1960 Mis	sion 63										
717 MN	3762 3763 3764 3765 3766 3767 3758 3759 3760 3761	M491 M492 M493 M494 M495 M496 M66 M667 M68 M68	H1 H2 H3 H4 H5 H6 N1 N2 N3	1357/1432 1434/1506 1508/1543 1545/1616 1618/1654 1656/1730 1737/1819 1821/1905 1907/1951	50:20N/53:00N 53:10N/55:50N 56:04N/58:40N 58:50N/61:20N 61:25N/64:20N 64:30N/67:20N 67:00N/63:20N 63:10N/59:20N 59:10N/59:20N 54:45N/50:20N	102:10/104:20 104:25/106:40 105:50/109:30 109:45/112:50 117:30/112:10 122:10/115:50 116:10/105:45 105:35/102:30	40 40 40 40 40 49,5 49,5 50	170 170 170 170 170 160 160	217 221 221 224 224 221 222 223 223 223	32.8 29.5 32.3 28.3 32.9 31.4 11.9 12.5 12.3	2,500 2,300 3,100 2,300 2,100 1,730 3,900 6,200 7,800 6,500	71 62 76 73 56 37 73 103 158
718 MS	3772 3773 3774 3775 3776 3777 3768 3769 3770 3771	M485 M486 M487 M488 M489 M490 M62 M63 M64 M65	H1 H2 H3 H4 H5 H6 N1 N2 N3 N4	1435/1504 1506/1603 1604/1616 1617/1647 1649/1719 1724/1755 1758/1844 1845/1930 1931/2017 2018/2102	50:20N/47:30N 47:20N/44:30N 44:20N/44:30N 41:10N/38:20N 38:10N/35:30N 35:20N/32:30N 36:50N/46:40N 36:50N/45:45N 45:55N/50:20N	102;30/102;00 101:55/101:30 101:20/100:50 100:50/100:30 100:55/100:05 100:00/99:40 99:40/100:10 100:15/100:50 100:55/101:40 101:45/102:30	39,5 40 40 40 40,5 45 45 44,5	170 170 170 170 170 165	217 216 215 215 215 214 218 217 215 214	27.6 53.6 11.3 28.3 28.9 15.9 15.6 16.2	2, 800 2, 700 3, 000 2,400 1,810 2,400 1,810 1,990 2,300 2,500	70 60 66 60 38 50 41 37 54
5 May	1960 Mi 3778	WE1704	Nı	1305/1355	15:00N/09:25N	67:00	60	135	198	9.3	2, 500	55
714 RS	3780 3781 3784 3785 3786 3787 3788 3788	WE1696 WE1697 FD885 FD886 FD887 FD888 FD889 FD890	N1 N2 H1 H2 H3 H4 H5	1236/1325 1326/1415 1417/1505 1507/1854 1558/1647 1650/1737 1739/1827 1830/1926	15:00N/09:25N 09:11N/03:37N 03:23N/02:11N 02:25 5/08:00S 08:00 S/02:25 S 02:11 S/03:23N 03:37N/09:11N 09:25N/15:00N	67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	64,2/65,1 65,2/66,2 66,2/66,9 66,9/67,9 67,4/68,6 68,6/69,4 69,5/70,3 70,2/71	122 120 117 115 112 110 108	214 214 213 213 212 213 214 214	6. 2 5. 9 12. 1 11. 0 10. 8 9. 9 9. 5	7, 300 5, 300 3, 600 4, 200 4, 200 5, 200 6, 900 8, 000	143 125 87 82 97 100 147
6 May	1960 M	lission 64B										
717 MO	3790 3791	M497 M498	H1 H2	1348/1418 1427/1517	48:21N/47:40N 46:45N/48:21N	102:45/105:15 105:15/105:00	30 40	175 170	219 220	36, 2 46, 2	790 1,970	<b>24</b> 49
718 MO	3796 3792 3797 3798 3793 3799 3794 3800 3795 3801	M503 WP1261 M504 M505 WP1262 M506 WP1263 M507 WP1264 M508	H1 N1 H2 H3 N2 H4 N3 H5 N4	1416/1456 1501/1602 1501/1552 1609/1708 1708/1808 1812/1910 1913/2043 1913/2043 2048/2218 2048/2218	48:21N/46:45N 46:45N 46:45N 47:15N/46:45N 47:15N/46:45N 47:12N 47:26N/47:34N 47:26N/47:34N 47:06N/47:55N 47:06N/47:55N	102:45/103:33 102:45 102:45/104:30 102:45 102:45 102:45 102:45/105:21 102:45/105:21 105:21/102:45	45 50 50 55 57 60 64 64 66,5/68,5	165 160 160 155 146 135 124 124 114	218 218 218 218 218 218 218 218 218 218	30.9 16.9 32.2 30.4 12.2 21.6 11.5 26.3 8.9 20.1	2, 100 2, 200 2, 900 7, 200 6, 800 11, 000 9, 900 10, 300 11, 000	50 52 69 111 115 174 197 208 218 222
9 May	1960 N	lission 64C	_									
715 RS	3802 3804 3805 3806 3803 3807 3808 3809 3810	WE1708 WE1710 WE1711 FD897 WE1709 FD898 FD899 FD900 FD901	N1 N3 N4 H1 N2 H2 H3 H4	1305/1351 1356/1447 1452/1537 1452/1537 1541/1627 1541/1627 1632/1718 1723/1803 1808/1855		67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	60 60 60 60 60 65 65	138 138 138 138 138 138 124 124	202 201 201 201 202 202 205 206 206	8, 6 9, 6 8, 4 18, 8 8, 6 19, 4 14, 0 12, 2 14, 2	2, 400 1, 320 550 < 760 660 1, 180 2, 700 3, 000 5, 600	56 25 8 16 18 24 56 94
714 RS	3812 3813 3814 3816 3815 3817 3818 3819 3820 3821	WE1716 WE1717 WE1718 FD891 WE1719 FD892 FD893 FD894 FD895 FD896	N1 N2 N3 H1 N4 H2 H3 H4 H5	1236/1325 1327/1416 1418/1506 1418/1506 1508/1555 1508/1555 1557/1633 1637/1725 1728/1816 1818/1906	03:23N/02:11S 03:23N/02:11S 02:25S/06:41S 02:25S/06:41S 02:25S/06:41S 02:11S/03:23N 03:37N/09:11N	67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00 67:00	64, 2/65, 4 65, 4/66, 6 66, 6/67, 4 66, 6/67, 4 67, 4/68, 4 67, 4/68, 4 68, 4/69, 1 69, 1/69, 3 70, 3/71	120 118 115 115 113 113 111 109 108	206 205 205 205 205 205 209 209 209	6, 1 5, 7 5, 3 12, 2 4, 8 11, 0 8, 4 10, 0 9, 8	5,800 6,000 4,500 4,200 2,200 3,100 3,400 6,500 6,100 9,700	127 123 103 99 24 83 99 131 156 205

Table 4, 2 (continued)

										-	dpm/1	000 SCF
AC No.	HASP No.	Air Force No.	Filter	Time ( <u>Z)</u>	Latitude	Longitude (°W)	Altitude (1000 ft.)	IAS (Kt)	Temp,	10 ³ SCF	Total Beta	Sr 90
0 May	960 Eic	lson Mission	в 67, 68,	69								
951	3822	1	H1	1952/2052	65:28N/70:00N	148:27/157:00	50	160	227	36.3	6, 200	111
A NW	3823	3		0255/0320	68:13N/66:16N	152:49/149:30	50	160	227	15.2	5, 300	111
)52	3824	i	H1	1916/2004	65:36N/70:00N	148:39/157:00	50/60	135	227	17, 1	1 \), 000	182
A NW	3825	3	H3	0236/0325	70:00N/65:00N	156:20/148:00	60/64/50	135	227	17, 4	8, 700	182
953	3826	3	H1	1847/1935	66:00N/70:00N	149:00/157:00	50/63.5	124	227	13.6	11,700	200
A NW	3827		H3	2215/2255	71:00N/67:00N	157:00/151:00	65/50	121	227	10.3	15,000	200
11 May	1960 Ei	elson Mission	<u> 69</u> A									
953	3828	1 3	H1	1846/1930	67:00N/70:00N	151:00/157:00	50/63,3	125	227	12.6	11,400	226
A NW	3829		H3	0040/0112	70:00N/66:00N	156:00/149:00	66,2/50	118	227	7.6	16,200	226
13 May	1960 Ei	elson Mission	ns 70, 71	, 72	_							
952	3830	1	H1	1946/2039	65:30N/70:00N	148:30/157:00	50/55	150	227	31.9	5,500	99
A NW	3831	3	H3	0301/0335	70:00N/67:00N	156:21/150:42	50	160	227	20.6	4,700	99
951	3832	3	H1	1925/2000	66:00N/70:00N	149:15/157:00	50/60	135	227	12,4	12, 100	212
A NW	3833		H3	0150/0230	70:00N/66:00N	156:21/149:10	60/50	135	227	14,2	12, 000	212
953	3834	1	H1	1845/1930	66:00N/70:00N	149:15/157:00	50/63	127	227	13.3	13, 100	192
A NW	3835	3	H3	0045/0130	70:00N/65:53N	156:21/149:00	65/50	121	227	11.6	17, 300	192
14 May	1960 E	ielson Missio	n 71A - '	<u>7</u> 2A								
951	3836	3	H1	0016/0102	66:00N/70:00N	149:15/157:00	50/60	135	226	16.4	12, 800	216
A NW	3837		113	0514/0605	70:00N/65:47N	156:21/148:50	64/65/50	121	229	13.0	11, 000	216
17 May	1960 E	ielson Missio	ns 73, 74	1, 75	_							
951	3838	1	H1	1946/2038	66:00N/70:00N	149:15/157:00	50	160	226	31,6	3, 200	62
A NW	3839	<b>3</b>	H3	0125/0215	70:00N/66:00N	156:21/149:10	50	160	226	30,4	3, 200	62
952	3840	1	H1	2217/2302	66:00N/70:00N	149:15/157:00	50/60	135	228	15.9	14, 500	182
A NW	3841	<b>3</b>	H3	0539/0625	70:00N/66:00N	156:21/149:10	60/50	135	,228	16.3	12, 300	182
953	3842	1	H1	1845/1933	66:00N/70:00N	149:15/157:00	50/61.5	130	229	15,4	16, 700	234
A NW	3843	3	H3	0219/0304	70:00N/66:00N	156:21/149:10	64/50	1 <b>2</b> 3	229	12,2	14, 900	234
20 May	1960 E	iclson Missio	ns 76, 77	7, 78		•						
952	3878	1	H1	1945/2037	66:00N/70:00N	149:15/157:00	50	160	227	31.5	3, 800	77
A NW	3879	3	H3	0157/0244	70:00N/66:00N	156:21/149:10	50	160	227	28.4	4, 700	77
951	3876	1	H1	1915/2002	66:00N/70:00N	149:15/157:00	50/60	135	227	16.7	10, 900	191
A NW	3877	3	H3	0209/0255	70:00N/66:00N	156:21/149:10	60/50	135	227	16.3	12, 400	191
953	3880	1	H1	1845/1933	66:00N/70:00N	149:15/157:00	50/6 <b>2</b>	1 <b>2</b> 9	229	15.0	12, 800	222
A NW	388 I	3	H3	0216/0302	70:00N/66:00N	156:21/149:10	64/50	1 <b>2</b> 3	229	12.5	11, 600	222
24 May	1960 E	Cielson Missi	ons 79, 8	0, 81								
951 A NW	3904 3905	1 3	H1 H3	1951/2036 0158/0243	66:00N/70:00N 69:50N/66:00N	149: 15/ 157:00 156:00/ 149: 10	50 50	1 60 1 60		27.5 27.5	6, 600 8, 000	120 120
952 A NW	3906 3907	3	H1 H3	2015/2058 0350/0437	66:00N/70:00N 70:00N/66:00N	149:15/157:00 156:21/149:10	50/60 60/50	135 135		15,4 16,8	11,500 14,100	231 231
953 A NW	3908 3909	1 3	H1 H3	1850/1932 0210/0250	66:00N/70:00N 70:00N/66:00N	149:15/157:00 156:21/149:10	50/63 65.5/50	127 121		12.4 10.1	24, 000 1, 690	185 185

Table 4.2 (continued)

										dpm/1	000 SCF	
AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	I AS (Kt)	Temp.	10 ³ SCF	Total Beta	Sr '90
20 May	1960 Rar	mey Mission 1	1									
RS	3844	2	н1	1526/1717	10:00N/18:00N	56:00/66:00	68.5/60	112	208	11,6	9, 500	155
21 May	1960 Ra	mey Mission	2									
RS	3845	2	Hı	1540/1724	10:00N/18:00N	56:00/66:00	60/50	135	210	40,6	1, 120	24
22 May	1960 Rar	ney Mission 3	3									
RS	3846	2	HI	1514/1727	10:00N/18:00N	56:00/66:00	50	160	199	92.6	280	7
23 May	1960 Ra	mey Mission	4									
RS	3873	2	Hı	1545/1730	10:00N/18:00N	56:00/65:00	66/50	118	213	27.0	3, 100	74
24 May	1960 Ra	mey Mission	5									
RS	3884	1	Hì	1522/1718	10:00N/18:00N	56:00/66:00	62/50	129	205	41.7	1, 850	36
25 May	1960 Ra	mcy Mission	в 7, 8									
RS	3887	2	HI	1552/1732	10:00N/17:00N	56:00/65:00	50	160	204	67.8	1,010	18
RS	3886	2	Hı	1547/1734	10:00N/18:00N	56:00/66:00	66/50	118	210	28.0	3, 100	84
26 May	1960 Ra	mey Mission	9									
RS	3888	2	Hı	1525/1719	10:00N/19:00N	56:00/67:00	62/50	129	203	41,5	≤ 69	
27 May	1960 Ra	mey Missions	10, 11	_								
RS	3890	2	Hi	1645/1749	12:00N/17:00N	61:00/66:00	66,6/50	118	210	16.3	1, 750	33
RS	3889	2	HI	1707/1814	12:00N/17:00N	61:00/66:00	60/50	135	205	27,0	2, 000	43
29 May	1960 R	mey Mission	в 14, 15	-								
RS	3926	2	Hl	1353/1424	12:00N/18:00N	62:00/67:00	65,2/50	151	211	8.7	4, 900	92
RS	3927	2	Hı	1247/1350	12:00N/18:00N	62:00/66:00	60/50	135	203	25.7	1, 890	32

AC No.	HASP	Air Force									dpm/	000 SCF	
<u></u>	No.	No.	Filter	Time (Z)	Latitude	Longitude ('W)	Altitude (1000 :h,)	I AS (Kt)	Temp.	103 SCF	Total Bata	8r ⁹⁰	
20 May	سا 960	ughlin Missic	ons 62, 6	3						<del></del> -	———— <u>——</u> ,		
696 LO	3847	52-2	H2	2058/2120	31:43N/29:27N	103:14/100:55	60	135	213	8,4	3, 700		
680 LQ	3848	63-2	H2	2047/2110	31:43N/29:27N	103:14/100:55	65,4/5G	120	213	6, 3	6, 400	**	
24 May	960 La	ughlin Missic	ns 65, 66	<u>,                                      </u>									
696 LO	3874	5-2	H2	1644/2326	31:43N/29:27N	103:14/100:55	60	135	213	153,8	350		
680 LO	3875	66-2	H2	2345/2400	31:43N/29:27N	103:14/100:55	69.2/69.5	110	213	3, 1	11,000		
26 May 1	960 La	ughlin Missio	n 67										
696 LO	3891	67-2	н3	2249/2330	31:43N/27:27N	103:14/100:55	60	135	215	15.6	4, 800	102	
2 June	1960 La	ughlin Missio	n_73										
696 LO	3942	73-2	H2	1717/1810	33:27N/29:27N	105:08/100:55	60	135	211	20.6	3, 700	70	

Table	4,2	(continued)

							•				dpm/10	00 SCF	
AC No.	HASP No.	Air Force No.	Filter	Time (Z)	Latitude	Longitude (°W)	Altitude (1000 ft.)	IAS (Kt)	Temp. (°K)	10 ³ SCF	Total Beta	Sr 90	
12 May	960 Mis	nion 64R											
716 RE	3849 3853 3850 3854 3851 3855 3852 3856	WE1664 FD1000 WE1665 FD1001 WE1666 FD1002 WE:1667 FL1003	N1 H1 N2 H2 N3 H3 N4 H4	1054/1236 1059/1236 1238/1415 1238/1415 1417/1600 1417/1600 1602/1739 1602/1739	16:28 N/05:08 N 16:25 N/05:08 N 04:54 N/06:23 S 04:54 N/06:23 S 06:37 S/18:36 S 06:37 S/18:36 S 18:50 S/30:10 S 18:50 S/30:10 S	66:50/65:42 66:50/65:42 65:39/64:14 65:39/64:14 64:12/63:10 64:12/63:10 63:09/59:47 63:09/59:47	64.5/66 64.5/66 66/68 66/68 68/69 68/69 69	121 121 116 176 112 112 109	211 211 211 211 211 211 217 217	11.9 27.1 10.5 23.8 10.1 23.0 8.7 19.5	4, 700 5, 800 3, 400 4, 000 3, 100 3, 700 4, 100 1, 320	111 119 95 108 90 104 99	
714 RE	3865 3869 3866 3870 3867 3871 3868 3872	WE1660 FD904 WE1661 FD905 WE1662 FD906 WE1663 FD907	N1 H1 N2 H2 N3 H3 N4 H4	1119/1306 1119/1306 1308/1440 1308/1440 1442/1621 1442/1621 1623/1802 1623/1802	16:25N/04:50N 16:25N/04:50N 04:36N/06:008 04:36N/06:008 06:148/17:448 06:148/17:448 17:588/29:205 17:588/29:205	66:50/65:40 66:50/65:40 65:37/64:15 65:37/64:15 64:13/63:15 64:13/63:15 63:13/63:47 63:13/59:47	63/65 63/66 66/67 66/67 67 67 67 67	122 122 118 118 116 116 116	208 208 210 210 211 211 211 211	14.0 32.0 10.6 23.8 10.7 24.3 10.7 24.3	5, 200 6, 200 3, 000 3, 400 3, 600 3, 800 4, 700 5, 600	126 133 95 108 98 119 137	÷
19 May	1960 Ez	eiza Mission	s 67, 68	, 69									
714 ES	3900 3903 3903	WE1332 WE1334 FD69-2	NI N3 H1	1200/1239 1748/1817 1748/1817	36:40 S/39:50 S 39:50 S/36:45 S 39:50 S/36:45 S	59:45/62:10 62:25/59:50 62:25/59:50	50 50 50	160 160 160	219 219 219	11.1 8.2 18.2	1, 350 2, 100 2, 000	46 46 46	
715 ES	3896 3898 3899	WE1320 WE1322 FD68-2	NI N3 H1	1136/1218 1814/1834 1814/1834	36:10 S/39:50 <i>6</i> 39:45 S/36:50 S 39:45 S/36:50 S	59:25/62:10 62:35/59:50 62:35/59:50	60 60	135 135 135	219 219 219	6, 9 3, 3 7, 4	3, 300 5, 300 6, 500	117 117 117	
716 133	3894 3895	WE1302 FD67-2	N3 H1	1517/1551 1517/1551	39:45 S/36:50 S 39:45 S/36:50 S	62:35/59:50 62:35/59:50	65 65	121 121	219 219	4, 0 9, 2	6, 600 8, <b>40</b> 0	165 165	
23 May	1960 E	zeiza Missio	n <b>s 7</b> 0, 7	1									
716 ES	3913	WE1349	N2	1226/1755	40:00S	62:15	60	135	214	55.7	3, 100	74	
715 ES	3911	WE1557	N2	1159/1750	40:00S	62:18/62:15	64.7/66.7	120	214	41.7	7, 100	174	
26 Ma	/ 1960 E	zeiza Missio	ns 73, 74	4				4					
714 ES	3916 3918 3919	WE1140 WE1142 FD73-2	N1 N3 H1	1147/1216 1843/1912 1843/1912	36:40 S/39:50 S 40:00 S/36:45 S 40:00 S/36:45 S	59:45/62:10 62:20/59:50 62:20/59:50	60 60 60	135 135 135	213 213 213	4.9 4.9 11,1	4, 200 3, 500 3, 600	85 85 85	
715 ES	3920 3921 3924 3923 3925	WE1204 WE1205 FD74-1 WE1207 FD74-3	N1 N2 H1 N4 H2	1155/1249 1250/1348 1250/1348 1935/2000 1935/2000	36:40 S/39:50 S 40:00 S 40:00 S 39:50 S/36:45 S 39:50 S/36:45 S	59:45/62:10 62:20 62:20 62:10/59:50 62:10/59:50	50 50 50 65 65	160 160 160 121 121	234 234	14.3 15.3 33.9 2.7 6.2	400 1,350 1,600 6,000 6,500	10 32 38 117 128	
31_Ma	y 1960 F	zeiza Missio	na 75, 7	6, 77	_								
716 ES	3938	WE1137	N2	1242/1811	40:00 S	62:15	50	160	217	94, 5	134	4	
715 ES	3934	WE1005	N2	1225/1755	40:005	62:15	60	135		54.9	2, 300	57	
71 <b>4</b> ES	3930	WE1353	NZ	1209/1755	40:00 S	62:15	64/65	12:	3 217	43.4	7, 100	171	
_ 2 .	lune 1960	Ezeiza Mis	sions 78	79, 80									
716 ES	3947 3949	WE5 WE7	N1 N3	1156/1234 1809/1836			50 50	16 16		11.1 7.9	730 1,460	26 26	
714 ES	3950 3952	WE1S	N1 N3	1149/1216 1855/1920			60 66	13 11	8 213	2,8	3, 800 7, 300	47 129	
715 ES	3943 3945 3946	WE3	NI N3 HI	1120/1140 1750/1810 1750/1810	6 39:45 S/36:50S	62:35/59:55	63,5/65, 60 60	5 12 13 13	5 213	4,4	2, 300 1, 050 2, 000	129 47 47	

		•			400	e 4.5 (Continue	Ħ				dpm/	1000 SCF
AC No.	HASP No.	Air Force No.	Filtes	Time (Z)	Latitude	Longitude (*W)	Altitude (1000 ft.)	IAS (Kt)	Temp, (*K)	10 ³ SCF	Total Beta	5r ⁹⁰
6 June	1960 Ez	eiza Mission	99									
716 ES	3953 3954 3955 3956	WE13 WE14 WE15 WE16	N1 N2 N3 N4	1237/1419 1421/1531 1536/1645 1647/1817	42:30 \$/50:15 \$ 50.29 3/58:00 \$ 58:00 \$/50:15 \$ 50:00 \$/42:30 \$	64:00 64:00 64:00 64:00	65,6/66,3 66,3/67,6 67,6/68,2 68,2/70	118 116 113 110	213 215 215 215 213	11.5 7.4 6.8 8.1	7, 700 7, 000 8, 300 10, 500	164 180 202 227
8 June	1960 E	ciza Mission	s 91, 92									
715 ER 716 ER	3974 3978 3975 3975 3976 3980 3977 3981 3982 3986 3983 3987 3984	WE21 FD91-1 WE22 FD91-2 WE23 FD91-3 WE24 FD91-4 WE25 FD92-1 WE26 FD92-2 WE27	N1 H1 N2 H2 N3 H3 H4 H4 N1 H1 H1	1148/1322 1148/1322 1324/1458 1324/1458 1500/1644 1500/1644 1500/1645 1645/1811 1203/1337 1203/1337 1339//513 1339//513	31:25 E/22:12 S 31:25 S/22:12 S 21:53 S/11:23 S 21:53 S/11:23 S 11:08 S/01:06 N 11:08 S/01:06 N 01:14 N/11:17 N 01:14 N/11:17 N 31:25 S/21:37 S 31:25 S/21:37 S 31:25 S/21:37 S 21:23 S/10:34 S 21:23 S/10:34 S	58:15/61:53 58:15/61:53 58:15/63:40 61:57/63:40 63:42/65:12 65:13/66:10 58:15/62:05 58:15/62:05 62:07/63:43 62:07/63:43 63:45/65:07	64.5/65.5 64.5/65.5 65.5/67 67.68 67/68 68/69.5 63.5/65.4 63.5/65.4 65.4/66 66.5/68.5	121 121 117 117 115 115 111 111 122 122 120 120	213 213 211 211 211 208 208 208 213 213 211 211	11.5 26.1 10.5 23.9 10.8 24.6 8.2 18.8 11.9 27.1 11.3 25.7	4, 900 5, 500 3, 400 4, 700 3, 500 3, 900 4, 100 4, 700 5, 000 6, 300 3, 600 4, 200 3, 400	121 134 90 122 93 90 96 127 137 159 97
	3988 3985 3989	FD92-3 WE28 FD92-4	H3 N4 H4	1515/1649 1651/1812 1651/1812	10:21 S/00:42N 00:55N/10:48N 00:55N/10:48N	63:45/65:07 65:08/66:06 65:08/66:06	66,5/68,5 68,5/69,7 68,5/69,7	115 110 110	208	22.2 7.7 17.5	5, 100 4, 400 4, 900	107 106 125
10 June	1960 Mi	ssions 93, <u>94</u>	, 95						•			
714 RL	3960	WE33	N1	1120/1620	19:35N/29:20N	68:30/100:47	55	150	208	70.9	1, 350	28
715 R <b>L</b>	3962	WE29	NI	1142/1642	19:50N/29:20N	68:46/100:47	60	135	207	52.7	4, 100	91
716 RL	3964	WE31	Nı	1215/1715	20:40N/29:20N	70:10/100:47	65	121	214	36.4	8,200	154

## RADIOCHEMICAL DATA FROM ROUTINE ANALYSES

The planning of the routine analysis of HASP filter samples has been described earlier in this chapter. Some of the data from these analyses are presented in Table 4.3. Included are some flight data to locate the region in which each sample was collected, the total beta, strontium-90 and tungsten-185 activities of the samples, the ratios  $Sr^{89}/Sr^{90}$   $Ce^{144}/Sr^{90}$  and  $Ba^{140}/Sr^{89}$  in the debris, and the apparent half-life of the total beta activity. A flight cross section or other flight diagram is included for each mission or group of missions. A description of the construction of these diagrams and an explanation of the information contained in them have been given earlier in this chapter.

Table 4.3 is arranged in the same manner as Table 4.2, and the explanations given above of the designation and order of presentation of the various missions and samples in that table are equally applicable to Table 4.3.

Again, the significance of the aircraft numbers and of the notations of sampling region given in the first column of the table was outlined in the discussion of Table 4.2.

The mean latitude, in degrees north or south, and the mean altitude, in units of one thousand feet, at which each sample was collected are given in the third and fourth column of the table.

The fifth column contains the total beta activities of the samples. These were determined by cutting a small disk from each filter and measuring its beta activity during a series of five or ten minute counts. The change in activity during this series gave the apparent half-life of the activity. Because the apparent half-lives changed with age, it was difficult to extrapolate the activities back to collection date, and the data given are for the tenth day after collection. No counting error is given for the beta activities since the measurement was not especially

precise and since the counting efficiency could not be accurately determined. An assumed efficiency of 20 percent, based on data for some standard samples of mixed fission products, was applied in converting the counting rates into disintegrations per minute. The activities have been rounded off to two significant figures, or to three where the first digit is a one.

The strontium-90 activities of the samples are given in the sixth column of the table. Like the beta activities in the preceeding column and the tungsten-185 activities, they are expressed in disintegrations per minute per one thousand standard cubic feet of air. The activities have been rounded off to the nearest integer except when they were below 2 dpm/1000 SCF, and then they have been rounded off to the nearest tenth. The activities given are those for the collection date, though, because of the long half-life of strontium-90, corrections for decay were seldom required in extrapolating from counting date to collection date. A number of strontium-90 analyses, as well as analyses for other nuclides, were performed in duplicate. The samples which had duplicate measurements made on them are listed in Table 4.15 or 4.16, later in this chapter. Those which were analyzed in composites rather than individually are listed in Table 4.14. Table 4.14 also contains strontium-90 activities of some sample composites which were measured for this nuclide (and for strontium-89). The individual samples of these composites were also analyzed for strontium-90, and these data appear in Table 4.3.

For samples collected on or after 9 May 1958, tungsten-185 activities, in dpm/1000 SCF, are given in the seventh column of the table. This column is omitted from the table for earlier samples. The tungsten-185 activities have been corrected for decay to 15 August 1958.

The strontium-89/strontium-90 ratio is given next in the table for all samples collected after 21 February 1958. For most missions the cerium-144/

strontium-90 and barium-140/ strontium-89 ratios are given in the next two columns. These ratios have generally been rounded off to two significant figures, but they are not carried out beyond a tenth. All three of the ratios are useful for determining the apparent age of debris. All are corrected to collection date.

The final column in the table, for missions before 17 April 1959, is the apparent half-life, in days, of the total beta activity on the tenth day after collection of the sample. This apparent half-life is a function of the half-lives and activities of beta emitters in the sample, and thus depends upon the age of the youngest major fraction of the debris. The apparent half-life increases with time and has been followed only to a value of 100 days in HASP samples. By that time the debris was more than five months old and this method of age determination was no longer precise, especially in mixed debris from more than one source. The determination of these half-lives was often somewhat subjective, and an error of at least  $\pm$  10 percent in these values is not unlikely in older debris. Larger errors may be expected for younger debris in which the apparent half-life was changing rather rapidly.

Table 4.3 and Figures 4.1 through 4.264 (Pages 100 through 627) are reproduced in Volume 2B

## ACTIVITIES OF SHORT-LIVED FISSION PRODUCTS

A number of short-lived fission products were included among the nuclides measured in the routine analyses of HASP samples. Thus zirconium-95 (halflife = 65 days) was analyzed in the first samples collected. Measurements of this nuclide were supplemented and then replaced, for later samples, by measurements of strontium-89 (half-life = 51 days). Analytical data for these two nuclides are given in Table 4.4. The samples are arranged according to collection date. The ratios of strontium-89 and of zirconium-95 to strontium-90, which are useful for estimating the age of debris, are included in the table. All activities and activity ratios are corrected for decay to collection date. With a few exceptions, only zirconium-95 was analyzed in samples collected on or before 21 Feb 1958, but many samples collected on or after 26 Feb 1958 were analyzed for both nuclides. Because of the method of analysis of zirconium-95 (gamma spectroscopy of disks of filter paper) precise measurements of the low concentrations still present in the debris collected after the middle of 1959 could not be obtained. The samples which were analyzed after this time but failed to reveal measurable activities are listed at the end of the table.

In order to detect the presence of debris only a few weeks old, analyses of a fission product with a shorter half-life were desired, and barium-140 (12.8 days) was chosen. Activities of this nuclide, corrected to collection date, are presented in Table 4.5. The ratio of barium-140 to strontium-89 is given in the table since this ratio is the most sensitive to the presence of young debris available in the HASP data. Because of its short half-life, barium-140 could not be detected in the samples analyzed for it after the beginning of 1959, but such samples are listed at the end of the table.

Late in the program a number of samples were analyzed for yttrium-91

(58 days), which was viewed as a possible replacement for strontium-89 and zirco nium-95 in the routine analyses. The activities of this nuclide (on collection date), together with the ratio of yttrium-91 to strontium-90 in the samples, are given in Table 4.6.

Analyses of cerium-144 gave data which are useful both for assessing the fractionation of debris and for determining the apparent age of older debris which no longer contained high concentrations of strontium-89 or zirconium-95. This measurement was made part of the schedule of routine analyses during December 1959. The results of the cerium-144 measurements, including the concentrations of this nuclide in air and the ratio of cerium-144 to strontium-90 in the debris, are given in Table 4.7. Activities are expressed in dpm/1000 SCF on collection date.

Table 4.4 Strontium-89 and Zirconium-95 Analyses

Date	Sample No.	dpm Zr ⁹⁵ 1000SCF	Zr 95 Sr 90	Date	Sample No.	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
22Aug57	4 5 6	688 + 41 624 + 34 846 + 48	13.0 5.0 4.9	8Nov57	41 42 43 44	1420 ± 140 1490 ± 150 8030 ± 310 481 ± 76	8.9 9.4 27.5 3.1
29Aug57	7 8 9 10	529 ± 42 543 ± 27 ≤ 334 459 ± 29	8.1 8.7 < 7.8 7.5		45 46 47	824 ± 82 955 ± 57 1060 ± 60	3.3 3.7 11.7
17Sep57	11 12 13 14	1030 + 50 383 + 26 420 + 20 1390 + 60	11.8 4.0 3.9 7.7	12Nov57	48 49 50 51 52 53	1640 ± 70 1310 ± 130 •4870 ± 190 4400 ± 170 181 ± 54	14.8 7.7 31.5 21.2 1.8
4Oct57	15 16 17 18	<184 1870 + 190 364 + 30 291 + 29	<pre>     25:9     18,2     2.2     1.5</pre>		54 55 56 57 58	< 267 < 318 7360 + 740 11100 + 1200 7270 + 730 3020 + 300	<pre>&lt; 2.3 &lt; 1.5 21.6 34.0 24.4 14.6</pre>
16Oct57	19 20 21 22	885 ± 41 1190 ± 50 443 ∓ 44 451 ± 35	11.1 12.1 8.4 10.1		59 60 61 62	$ \begin{array}{c} 2710 \pm 270 \\ \leq 233 \\ 785 \pm 79 \\ 2980 \pm 120 \end{array} $	$ \begin{array}{c} 22.4 \\ \leq 1.1 \\ 3.5 \\ 13.5 \end{array} $
5 Nov57	7 23 24 25 26 27 28 29 30 31 32 35	64000 ± 6400 5110 ± 200 ≤ 236 154 ± 31 1870 ± 190 1400 ± 140 7390 ± 740 1590 ± 90 578 ± 58 408 ± 60 ≤ 423	77.6 24.2 <1.9 1.7 8.0 5.9 34.3 9.7 2.8 1.8 <2.9	20 <b>Nov</b> 57	68 69 70 71 72 73 74 75 76 77 78	690 + 39 233 + 57 264 + 41 184 + 13 <152 <193 550 + 55 < 303 1140 + 70 749 + 50 591 + 59 < 447	5.0 2.0 2.1 1.4 1.1 4 1.1 5 3.9 7 3.6 1.8 1.6 1.5
8Nov57	36 37 38 39 40	1470 + 60 2160 + 90 1380 + 60 1160 + 120 635 + 51	11.6 12.5 8.3 6.8 2.2	22Nov57	·	5690 + 570 7390 + 740 5910 + 590 5620 + 560	22.1 28.9 23.4 24.3

Table 4.4 (continued)

Date	Sample No.	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr 90	Date	Sample No.	dpm Zr 95	Zr ⁹⁵ Sr 90
22Nov57	84	2690 + 270	19.7	14Dec57	125	4540 + 450	27.0
	85	7000 <b>Ŧ</b> 700	27, 1		126	5930 <del>+</del> 590	23.0
	86	852 <del>+</del> 85	9.6		127	6280 7 630	34.2
	87	1120 Ŧ 110	17.6		128	2530 7 250	13.2
	88	10100 ∓ 100	32.8		137	788 7790	22.0
	89	62900 <del>∓</del> 630	64.1		138	1040 + 100	21.0
	90	181000 ∓ 18000	77.8		139	2200 ∓ 220	25.3
	91	83900 <del>T</del> 840	85.8		1 <b>4</b> 0	3480 <del>T</del> 350	21.1
	92	2390 <del>T</del> 240	9.1		142	424 干 21	26.7
	93	3080 <del>T</del> 310	13.7		1 <b>4</b> 3	<b>302</b> ∓ 18	30.6
	94	5820 ∓ 580	20.5		144	< 40.8 ⁻	< 26. 7
	95	3990 ∓ 400	16.8			~	_
		-		17Dec57	129	6030 + 600	22.8
26Nov57	96	2420 <u>+</u> 240	30.7		133	3270 干 330	23.8
	97	4940 <u>∓</u> 490	25.0		1 <b>34</b>	3420 〒340	33.5
	98	4490 <del>I</del> 450	21.7		135	4940 7 490	31.9
	99	3290 <u>∓</u> 330	15.3		136	2660 <u>∓</u> 270	25.8 [.]
	100	2690 <u>∓</u> 270	15.7		145	< 120 T	<u>&lt;</u> 34.0
	101	4900 + 490	18.9		146	-2700 <u>+</u> 270	39.6
	102	3370 <del>T</del> 340	25.5		147	$3710 \mp 370$	30.4
	103	$1230 \mp 120$	27.0		148	1760 <u>∓</u> 180	8.7
	104	3550 <del>I</del> 360	44.1				
	105	3760 <del>I</del> 380	46.6	10Jan58	149	$2330 \pm 230$	12.9
	106	$1630 \mp 160$	27.0		150	3850 <del>T</del> 390	16.8
	107	971 <del>1</del> 97	11.3		151	2940 <del>T</del> 290	20.9
	108	2220 <u>∓</u> 220	27.5		152	1950 7 200	11.8
25. 55	110	1540 . 150			153	$1310 \mp 130$	11.5
3Dec57	110	1740 ± 170	8.3		154	874 <del>T</del> 87	13.6
	111	1330 <del>I</del> 130	8.0		155	≤ 131 ⁻	
	112 113	2600 <del>I</del> 260	15.8		156	353 ± 35	9.5
	114	8780 干 880 897 干 900	36.4		157	< 45.2 < 25.7	≤ 12.7 ≤ 25.9
	117	324 <del>+</del> 320	50.1		158		≤ 45.9 ≤ 10.0
	118	593 <del>T</del> 590	16.4		159		<b>≤</b> 18, 8
	119	796 <b>+ 8</b> 00	20.9 25.4		160	- 249 ± 25	22.8
	120	746 <del>T</del> 34	20.5	1 <b>4</b> Jan58	161	1000 + 100	22 /
	120	140 1 34	20,5	OCHBORY	162	1900 ± 190 1840 ∓ 180	23.6
14Dec57	121	5560 + 560	27.8		163	927 + 48	12,3
1476631	122	4890 <del>+</del> 490	30.5		164	3150 <del>+</del> 130	3.7
	123	1800 7 180	28.1		104	2130 <u>T</u> 130	10.0
	124	781 <u>∓</u> 780	25.7	·21Jan58	165	1850 <u>+</u> 190	19.3

Table 4.4 (continued)

Date	Sample No.	95 1000 SCF	2r ⁹⁵ Sr 90	Date	Sample No.	$\frac{\text{dpm } Zr^{95}}{1000 \text{ SCF}} \qquad \frac{Zr^{95}}{Sr^{90}}$
21Jan58	166 167 168 169 170 171 172 173 174 175	<pre> &lt; 165</pre>	<pre> &lt;23.9  16.5 14.9 18.1 21.2 &lt;63.6 &lt;24.3 18.1 18.1</pre>	<b>4Feb58</b>	197 198 199 200 217 218 219 220 221 222 223	1530 + 150 9.5 1770 + 180 9.8 785 + 790 6.1 2790 + 280 13.0 428 + 430 18.2 < 27.7 < 15.7 < 87.7 < 19.5 < 84.9 3610 + 360 16.6 5440 + 540 22.7 7550 + 760 23.7
24Jan58	177 178 179 180 181 182 183 184 185 186 187	3210 ± 120 2880 ± 290 4780 ± 180 8120 ± 300 3750 ± 140 230 ± 16 < 40.7 302 ± 30 < 117 < 53.3 24.6 < 9.1 24.6 < 9.1	19.4 20.0 19.0 21.9 18.4 16.2 <	7Feb58	224 201 202 203 204 205 206 207 208 225 226 227 228	7580 ± 760 17.9  2700 ± 270 15.4  1050 ± 110 17.3  405 ± 41 17.1  212 ± 21 ≥ 12.4  2650 ± 270 11.9  2570 ± 260 11.2  2330 ± 230 15.1  1790 ± 180 12.5  4240 ± 420 18.7  21100 ± 2100 30.1  25400 ± 2500 22.6  27200 ± 2700 25.7
31Jan58	189 190 191 192 193 194 195 196 209 210 211 212 213 214 215 216	1920 + 190 1540 + 60 2080 + 210 2540 + 250 2200 + 220 528 + 25 103 + 100 <	14.6 11.3 12.2 13.4 11.2 12.9 >22.7	21Feb58	229 230 231 232	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
5Nov57	23	47100 <u>+</u> 4700	57.2	64000 <u>+</u> 6400	77.6
21Feb58	266	4470 <u>+</u> 530	18.7	2430 <u>+</u> 240	10.2
26Feb58	241 242 243 244 245 246 247 248	597 <u>+</u> 60	23.3	904 + 90 420 + 42 205 + 21 89.1 + 9 1380 + 140 830 + 83 245 + 25	6.2 4.9 3.9 3.0 10.4 9.4
	2 67 2 68 2 69 2 70 2 74 2 49 2 5 0	1660 <u>+</u> 120	11.4	18.0 ∓ 2 > 1090 1040 + 100 670 ∓ 67 537 ∓ 54 876 ∓ 88 1170 ∓ 120 1620 ∓ 160	15.9 8.5 7.1 8.7 5.3 9.6 8.7
l Mar58	251 252 253 2 54 255 256 257	<b>4</b> 02 <u>+</u> <b>4</b> 0	8.1	669 + 67 1120 + 210 509 + 51 151 + 15 29.5 + 3 6.24 + 1 1250 + 130	9.4 12.4 22.6 6.5 5.8 <
	2 58 259 2 60 3 35	≤ 381 1240 <u>+</u> 88	≤ 5.3 7.7	479 ∓ 48 835 ∓ 84 1360 ∓ 140 783 ∓ 77	- 5.8 6.6 7.8 6.1 4.8
	336 337 338	398 <u>∓</u> 40 649 <u>+</u> 65	4.0 6.4	348 ∓ 66 325 ∓ 220 198 <u>∓</u> 82	3,5 5,6 2,0
5 Mar 58	275 276 277 278 279 280			942 + 94 775 + 78 126 + 13 50.8 + 5 868 + 87 1080 + 110	5.8 5.3 5.4 8.2 5.8 7.3

Table 4.4 (continued)

Date	Sample No.	dpm Sr 89 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
5Mar58	281 282 343 344 345 346	3840 + 380 5070 <del>+</del> 510	17.3 20.1	1260 + 130 1140 + 110 1470 + 65 3220 + 270 4110 + 480 2350 + 230	6.9 5.4 6.6 12.8 14.6 5.8
6Mar58	283 284 285 286 287 288 289 290	426 + 43 895 + 90 301 + 30 750 + 75 299 + 30 391 + 39 528 + 53	3.1 7.3 2.4 6.5 1.9 2.8 3.5	2770 + 180 2640 + 170 1600 + 470 3080 + 270 2470 + 430 1820 + 480 2270 + 440 2530 + 260	20.1 21.5 12.5 26.7 15.1 11.7 16.3 16.8
11Mar58	201 292 293 294 295 296 297 298 311 312 313	675 + 68 1020 + 100	5.7 5.6	858 ± 86 717 ± 72 436 ± 44 129 ± 13 1080 ± 110 925 ± 93 1020 ± 100 1180 ± 120 1500 ± 170 812 ± 76	6.4 6.1 11.8 6.4 8.6 8.1 7.4 9.9
18Mar58 -	299 300 301 302 303 304 305 306 315	23700 <u>+</u> 2800	63,4	16200 + 240 1100 + 110 570 + 57 37.4 + 4 772 + 77 883 + 88 671 + 67 1250 + 20 3900 + 160	3.5 43.2 12.4 14.2 15.0 6.1 9.9 10.1 71.8
	3 16 3 17 3 18	$\begin{array}{c} 1610 \pm 110 \\ 1470 \pm 150 \end{array}$	8.8 8.4	1900 ∓ 150 1700 ∓ 110 1030 <u>∓</u> 180	18.0 10.4 9.8 5.0

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	<u>5r⁸⁹ 5r⁹0</u>	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
18Mar58	319 320 321 322			993 + 120 433 <del> </del>	12.3 3.6 8.1 8.7
19Mar58	323 324 325 326	778 <u>+</u> 54 719 <u>+</u> 158	8. 2 8. 2	1190 + 130 1010 <del> </del>	8.7 10.7 19.4 7.9
25Mar58	327 328 329 355 355 356 357 358 348 349 350 351 352 353 354	16100 ± 1200 39000 ± 2000 78800 ± 9500 19600 ± 3900 15500 ± 1800 34500 ± 2000 62500 ± 9100 15800 ± 900 1670 ± 390 1930 ± 190 2110 ± 220 1220 ± 110 1220 ± 180 2310 ± 190	76.0 96.2 91.1 68.7 67.7 86.6 89.4 49.2 9.4 10.1 9.8 8.6 6.0 17.7 10.7	11600 + 240 31000 + 2600 69500 + 53 00 15000 + 1170 9610 + 90 33300 + 1500 60600 + 1600 14500 + 300 1390 + 170 2140 + 220 1570 + 280 2000 + 200 3300 + 200 2250 + 480	54.9 76.8 80.4 52.7 41.9 83.5 86.7 45.2 7.8 9.9 11.0 9.8 16.6
28Mar 58	359 360 361 363 364 365 366 367 368 369 370 371 372 373	19700 + 1400 38000 + 3000 19600 + 1400 1790 + 130 4560 + 460 730 + 73 699 + 70 919 + 92 1760 + 180 1630 + 160  < 8.26	75.4 83.2 65.3 62.8 57.0 7.9 8.4 8.8 11.0 10.4 VIVI 20.6 VIVI 20.6	9420 ± 410 34800 ± 2200 7610 ± 260 2540 ± 210 2960 ± 120 361 ± 73 1210 ± 150 883 ± 78 1740 ± 84 1670 ± 150 3060 ± 80	36.0 76.1 25.3 89.4 37.0 3.9 14.6 8.5 10.9 10.7 12.4

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
1Apr58	375			3800 + 80	14.5
	376	1830 + 180	25 <b>.9</b>	546 <del>T</del> 67	7.7
	377	890 ∓ 89	15.3	662 <del>T</del> 60	11.4
	378	6080 <u>∓</u> 610	35, 1	2 <b>4</b> 90 ∓ 60	14.4
	379	9440 <u>∓</u> 940	43.2	<b>4</b> 090 ∓ 150	18.7
	3 80	1 <b>2200</b>	44.5	3670 ∓ 150	13.4
	381	9170 <u>∓</u> 920	37, 9	_	•
	3 82	9910 <del>I</del> 990	59.0	1690 + 69	10.1
	3 83	3840 <u>∓</u> 380	28.3	2 <b>3</b> 10 <u>∓</u> 95	17.0
	3 84			<b>43</b> 10 <u>∓</u> 170	17,2
	3 85	$14000 \pm 140$	62.5	<b>4710 ∓ 13</b> 0	21.0
	3 86	4140 <del>T</del> 410	29.5	1530 <u>∓</u> 87	1 <b>0.</b> 9
	3 87	1070 🛨 110	9.9	570 <u>∓</u> 85	5.3
	3 88			2 <b>4</b> 60 ∓ 98	17.9
	3 89	12/0		1460 <del>T</del> 71	8.3
	390	1360 <u>+</u> 140	13.7	1650 王 89	16.6
4Apr58	391	8560 + 860	37.1		
	3 92	16000 ∓ 1600	<b>64.</b> 8	3400 + 250	13.8
	3 93	11800 Ŧ 1200	57.0	6980 <del>T</del> 860	33.7
	3 94	1 <b>820</b>	42.2		•
	3 95	6670 <u>∓</u> 670	38. <b>4</b>	3070 ± 92	17.7
	396	5910 <u>∓</u> 590	26.9	1820 <del>T</del> 140	8.3
	3 97	909 <u>∓</u> 91	11.8	2910 <del>I</del> 160	37.7
	3 98			156 ∓ 102 1 <del>44</del> 0 <u>∓</u> 310	29.6
	3 99	969 ± 97	5, 9	1 <del>44</del> 0 <u>∓</u> 310	8.8
	4 00	926 ∓ 93	6. <b>3</b>	1680 <del>I</del> 120	11.4
	401	879 <del>T</del> 88	7.5	2590 王 180	22.0
	4 02	3110 <del> </del>	18.6	$1320 \mp 150$	7.9
	<b>4</b> 03	9700 ∓ 970	77.6	5730797	45.9
	4 04	40200 7 4000	88.0	22000 <u>∓</u> 260	48.1
	4 05 4 06	9510 〒 950	47.1	7020 <del>T</del> 230	34.8
	4 00	16 <b>5</b> 00 <u>∓</u> 1700	65.0	13800 <u>∓</u> 350	54.4
8Apr58	407	4460 <u>+</u> 450	39,6	2510 ± 130	22.3
•	408	1 <b>4</b> 100 <u>∓</u> 1400	77, 2	8660 干 190	47.4
	4 09	7660 <del>T</del> 770	43,4	-	-
	410	32900 <del>I</del> 3300	42.7		
	411	1070 🛨 110	8, 5		
	4 12	753 <del>¥</del> 75	5, 5	2310 <u>+</u> 150	16.8
	413	$1110 \pm 110$	9 <b>. 3</b>	2260 <u>∓</u> 190	18.9

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	$\frac{\mathtt{Sr}^{89}}{\mathtt{Sr}^{90}}$	dpm Zr ⁹⁵	Zr 95 Sr 90
9 4 5 0					
8Apr58	414	1180 <u>+</u> 120	6.7	5350 ± 140	30.3
	4 15	E200 : E20	40 =	209 <u>∓</u> <b>4</b> 3	< <b>49.9</b>
	419	5200 ± 520	42.7		
	420	3420 <del>T</del> 340	42.8		
	421	1470 ∓ 150	39.2		
	4 22	383 ∓ 38	47.6		
15Apr58	423	1110 + 110	41.6		
•	4 24	4360 <del>T</del> 440	37.7		
	4 25	2770 🛨 280	13.5		
	428	6160 7 620	36.2		
	429	9630 <del>T</del> 960	44, 5		
	430	8170 🛨 820	36.0		
	431	1060 🛨 110	9.9		
	432	11 <b>4</b> 0 <del>+</del> 110	<b>5.</b> 2		
	4 3 3	1860 🛨 190	9.3		
	4 34	$1340 \pm 130$	8.4		
254 50	440				
25Apr58	443	3920 ± 390	38.2		
	4 44	$2510 \pm 250$	37.3		
	4 45	454 王 45	29.8		
	446	441 <del>T</del> 44	30.5		
	447	4680 <del>T</del> 470	37.9		
	448	4830 <u>∓</u> 480	40.4		
	450	1100 7 110	10.1		
	451	239 <u>∓</u> 24	36.0		
	452	48.7 7 5	19.0		
	4 5 3	142 + 14	5.7		
	4 54	4990 <del>1</del> 500	40.9		
	4 55	2510 王 250	28.9		
	456	502 <del>T</del> 50	5.0		
	457	<b>446 王 45</b>	3.8		
	4 58	2 <b>4</b> 50 <u>∓</u> 250	18.3		
2May58	459	5290 ± 530	30.0		
	4 60	5120 <del>+</del> 510	29.1		
	461	6060 〒 610	27.5		
	4 62	7480 <del> </del> 750	32.4		
	4 63	6920 + 690	38.1		
	4 64	4620 <del>1</del> .460	31.4		
	4 65	4960 🛨 500	35.1		

Table 4.4 (continued)

		••			
Date	Sample No.	dpm Sr ⁸⁹	Sr 89 Sr 90	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
2May58	466+	2330 + 230	24 7		
	467	2000 7 200	24.7		
	469	2000 <del>T</del> 200	16.8		
	470	370 <del>T</del> 37	4.0		
	471	1440 <del>+</del> 140	9.5		
		173 🛨 17	54.4		
	473	222 7 22	11.5		
	474	<b>3</b> 950 <u>∓</u> <b>4</b> 00	35.9		
6May58	475	14700 <u>+</u> 1500	53,6		
/	478	5080 <del>T</del> 510			
	4 79	$6520 \pm 650$	40.3		
	480	4060 <del>+</del> 410	50.5		
	481	1240 + 120	63.3		
	482		29.2		
	483	461 <del>+</del> 46	25.4		
	4 84	3280 ∓ 330	22.1		
	4 85	3180 ∓ 320	18.6		
	486	2030 7 200	17.4		
		856 <del>+</del> 86	5.9		
	487	141 + 14	32.6		
	4 88	207 ∓ 21 354 ∓ 35	143		
	489	354 + 35	17.4		
	<b>4</b> 90	1730 🛨 170	28.7		
9May58	491	4830 + 480	27.0		
·	492	1980 7 200	16.2		
	4 93	1060 7 110	8.0		
	4 94	503 <del>T</del> 50	5.1		
	4 95	1920 🛨 190	29.0		
	496	1920	35.6		
	4 97	6160 7 620	37.0		
	498	6660 <del>+</del> 670	39.4		
	499	4880 <del>T</del> 490	36.7		
	5 00	3410 + 340	28, 1		
	501	3410 <u>干</u> 340 6710 <u>干</u> 670	33.0		
	5 02	1870 7 190			
	503	$2340 \pm 230$	29.7		
	5 04	1610 <del>+</del> 160	29.5		
	5 05	577 + 58	22.3		
	505	311 <u>T</u> 30	16.9		
24May58	507	4200 + 420	24.9		
-	5 0 8	$7_180 + 720$	33. 2		

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
24May58	509	6010 + 600	28.5		
	5 1 0	60 <b>4</b> 0 ∓ 600	28.6		
	511	7550 <del>T</del> 760	34.2		
	512	5680 <del>T</del> 570	43.9		
	513	5660 <u>∓</u> 570	52,2		
	519	37 <b>4</b> 0 <del>T</del> 370	202		
	5 20	3290 <del>1</del> 330	266		
	5 2 1	601 <u>∓</u> 60	21.0		
	5 2 <b>2</b>	3610 <u>∓</u> 360	23.1		
29May58	523	4320 <u>+</u> 430	40.3		
	5 2 <b>4</b>	3260 <u>∓</u> 330	1 <del>44</del>		
	525	3790 <u>∓</u> 380	23.7		
3Jun58	526	119 + 12	73.1		
	527	119 ± 12 2690 <del>T</del> 270	56.7		
	5 28	5010 <del>T</del> 500	28.8		
	5 29	2550 <u>∓</u> 260	12, 1		
6Jun58	530	131 <u>+</u> 13	25.9		
	531	<b>4330 ∓ 43</b> 0	<b>56.4</b>		
	532	3010 <del>∓</del> 300	26.3		
	5 3 3	3330 <u>∓</u> 330	20.9		
10Jun58	534	31.7 + 3	44.2	45.4 + 23	63 <b>.4</b>
	5 3 5	<b>44</b> 70 <b>∓ 4</b> 50	59 <b>.4</b>	2030 🛨 170	27.0
	536	4730 <u>∓</u> 470	36.0	<b>4</b> 110 ∓ 210	31.3
	5 3 7	2230 <u>∓</u> 220	19.2	1530 <u>∓</u> 20	13.2
13Jun58	538	514 + 51	32.4	218 + 2	13.8
	539	4900 <u>∓</u> 490	26.6	3390 干 7	18.4
	540	<b>30</b> 60 <u>干</u> <b>3</b> 10	26.5	2290 <del>T</del> 14	19.8
	541	3850 <u>∓</u> 390	22.6	1900 🛨 11	11.1
17Jun58	542	143 + 14	85.4	92, 1 + 4, 8	55.2
	543	1 <b>4</b> 50 ∓ 150	42.3	812 <del>T</del> 2	23.7
	544	4060 <u>∓</u> 410	72.7	1770 Ŧ 30	31.6
	5 <b>4</b> 5	3190 <u>∓</u> 320	37.4	1990 ∓ 8	23.3
	546	$2190 \pm 220$	22.4	3980 <del>T</del> 40	40.8
	547	3710 <u>∓</u> 370	25.0	4820 <del>T</del> 43	32,4
	548	6 <b>28</b> 0 <u>∓</u> 630	36.3	58 <b>4</b> 0 <u>∓</u> 53	33.8

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	<u>Sr</u> 89 Sr90	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
17Jun58	549	4030 <u>+</u> 400	21.6	7140 <u>+</u> 64	38.4
20Jun58	<b>5</b> 50	500 → 50	26.9	- 62 <b>4</b> <u>+</u> 1 <b>4</b>	33,5
	5 5 1	1830 <del>T</del> 180	50. í	1690 7 22	46.3
	5 52	3390 <del>T</del> 340	26.8	4280 <del>T</del> 38	33.8
	5 5 3	2290 <del>+</del> 230	22.9	3670 <del>+ 44</del>	
	5 54	7550 <del>+</del> 760	53. Ó	2010 T 44	36.6
	5 5 5	4130 7 410	22.7	9100 1 550	44 6
	-556	2950 7 300	17.2	8100 ± 550	44.5
	5 5 7	$\frac{2080 + 300}{4210}$		4230 <u>平</u> .51	24.6
	33.	2080 <u>T</u> 210	13.2	2900 <u>∓</u> 46	18.4
24Jun58	558	2810 + 280	26.4	4600 + 69	422
	559	4270 <del>+</del> 430	25.7		43.3
	<b>5</b> 60	4110 7 410	19.8	6150 <del>T</del> 92	37.0
	5 61	4010 <del>+ 4</del> 00	17.5	5550 <u>干</u> 100	26.8
	562	3210 <del>+</del> 320	42.9	6520 <del>T</del> 98	28.4
	5 63	10600 7 1100		4120 <del>T</del> 120	55.0
	5 6 <b>4</b>		88, 1	6530 772	54.6
	5 65	6240 <del>T</del> 620	66.7	4520 〒68	48.3
	2 63	4190 <u>∓</u> 420	59.5	4220 <u>+</u> 68	60.0
28Jun58	566	2540 + 250	33.4	3340 + 40	44.5
	5 67	4200 <del>+</del> 420	24.2	3360 ± 60	44.3
	5 68	3530 ± 350		4610 <del>T</del> 69	26.6
	5 69	3470 ∓ 350	25.2	4560 <del>∓</del> 55	32,5
	5 70	5540 <del>+</del> 550	22.4	4890 干 64	31.6
	5 71		60.6	4710 <del>T</del> 56	51.4
	5 72	7 <b>4</b> 90 <u>∓</u> 750	65.7	7080 <del>T</del> 78	62.2
	5 73	F150 + 550	44 -	60 <del>4</del> 0 <del>፲</del> 73	74.1
	5 (3	5150 <u>+</u> 520	46.9	7810 <u>∓</u> 63	71.2
1Jul58	574	67 7 4 7	36.9	323 . 11	
	5 75	67.7 + 7 $102 + 10$	34.4	232 <u>+</u> 11	126
	5 76	556 <del>T</del> 56	23.7	1010 4 20	
	5 77	1130 ± 110		$1010 \pm 20$	42. 9
	5 78	1130 ∓ 110 3930 ∓ 390	14.2	3550 <del>∓</del> 39	44.3
	5 79	2770 T 290	18.8	5490 <u>干</u> 44	26.3
	5 80	2770 干 280 5730 干 570	17.1	43000 : 5	
	5 <b>8</b> 1		25.3	$42800 \pm 300$	188
	2 67	<b>4</b> 980 <b>王</b> 500	21.5	30700 <del>I</del> 250	132
4Jul58	582	2860 + 290	28,7	4100 + 70	4
	5 83	1670 <del>+</del> 170	•	4100 + 70	41.2
	584	10.0 I 110	19.1	3180 ∓45	36.3
	J-01			<b>3</b> 830 <u>∓</u> 61	28.8

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	Sr 89 Sr 90	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
4Jul58	585 5 86 587 5 88 5 89	2940 + 290 3860 ∓ 390 3130 ∓ 310 4490 ∓ 450 5070 <u>∓</u> 510	18.7 40.1 42.6 66.4 60.7	4800 + 62 3430 <del>+</del> 86 4380 <del>+</del> 79	30.6 35.6 59.6
8Ju158	590 591 592 593 594 595 596 597	1660 ± 170 1720 ± 170 52000 ± 5200 13900 ± 1400 3130 ± 310 3520 ± 350 2040 ± 200	52.6 80.0 104 81.4 21.1 17.7 13.1	1970 ± 33 776 ± 4 35700 ± 250 12100 ± 73 6980 ± 2140 5990 ± 54 5160 ± 67 2720 ± 44	62.5 36.1 71.5 70.8 47.0 32.2 26.0 17.5
12Sep58	598 599 600 601 602 603 604	45000 + 4500 33200 + 3300 24000 + 2400 9030 + 900 14500 + 1450 4700 + 470 1430 + 140 34500 + 3450	62.7 55.5 55.0 33.0 33.9 20.6 9.0 72.3	8310 ± 830 5410 ± 540	11.6
16Sep 58	610 611 612 613	10900 + 1100 21000 + 2100 20600 + 2100 23700 + 2400	42.6 50.0 47.9 49.4	6130 <u>+</u> 610	12.8
19Sep58	615 618 621	13900 + 1400 5960 + 600 314 + 31	48.5 20.5 3.7	6770 ± 680 1420 ± 140	23.6 4.9
23Sep58	622 623 624 626 627 628 629 630	235 ± 24 387 ± 39 463 ± 46 1550 ± 160 7340 ± 730 20500 ± 2100 14200 ± 1400 6250 ± 630	33.3 40.0 27.1 11.7 57.1 53.7 67.4 43.7	348 <u>+</u> 350	36.0

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	<u>Sr⁸⁹</u> <u>Sr⁹⁰</u>	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
23Sep58	632	15500 <u>+</u> 1550	59.2	9070 <u>+</u> 910	34.7
30Sep58	6 33 6 34	6830 <u>+</u> 680 688 <u>+</u> 69	56.5 10.3	3710 <u>+</u> 370	30.7
	6 <b>35</b> 6 <b>36</b> 6 <b>3</b> 7	622 〒62 1010 〒100 851 〒85	8.7 12.8 11.4		
	6 <b>3</b> 9 6 <b>4</b> 0	544 王 54 1200 王 120	5,5 15,3	1010 <u>+</u> 100	12.9
30ct58	642 6 43 6 44	3830 ± 380 1650 ± 170	39.0 26.1	2850 <u>+</u> 290	29.1
	6 45 646 6 47	1010 <u>∓</u> 100 269 <u>+</u> 27 372 <u>+</u> 37	13.8 3.9 5.6	459 <u>+</u> 46	6.7
	648 649	148	1,9 3,6 16,1		
	650 651 652	3730 〒370 9220 〒 920 14100 〒 1400	25.9 37.7 40.9	11600 <u>+</u> 1200	22 -
	6 53 6 54 655 656	$31500 \pm 3150$ $21100 + 2100$	98.7	137000 ± 13700	33.7 106
70ct58	657	17000 <u>∓</u> 1700	49.6 46.0	804 + 80	8,9
	658 659 660	842 <u>+</u> 84 513 <u>+</u> 51 554 <del>+</del> 55	4.2 7.9 8.6	5600 <u>∓</u> 560	28.0
	6 6 1 6 6 2 6 6 3	314 〒 31 1180 〒 120 2760 〒 280	4.9 24.2 17.9	524 <u>+</u> 52	8.2
	6 64 6 65 6 66	2640 ± 260 2200 ± 220 7870 ± 790	22.2 19.4		
	6 67 668 6 69	113000 <u>∓</u> 11300	39.4 62.1	188000 <u>+</u> 18800 96900 <u>+</u> 9700	103 96.9
10Oct58	671	7830 <u>+</u> 780 1170 <u>+</u> 120	34.8 7.6		

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
10Oct58	672	884 + 88	6.7		
	6 73 6 74	3720 ∓ 370 84700 ∓ 8500	19.7	136000 + 14000	101
	6 7 <b>4</b> 675	101000 ∓ 10000	62.8 9 <b>4.4</b>	116000 + 12000	109
	676	55500 <del>+</del> 5550	58.5	118000 ± 12000	107
	678	367 <del>+</del> 37	3.9	554 + 55	5.9
	679	290 7 29	3. 9	331 - 33	٠.,
	681	346 <u>+</u> 35	10.7		
14Oct58	682	1420 + 140	13.7	1660 ± 170	16.1
	6 <b>83</b>	268 <u>∓</u> 27	17.9	_	
	6 <b>88</b>	39700 <u>∓</u> 4000	46.0	40400 ± 4000	46.9
	689	<b>46500 王 4650</b>	51.7	63000 <u>∓</u> 6300	70.1
	690	67200 <del>I</del> 6700	52,8	75900 <u>∓</u> 7600	59.6
17Oct58	692	1290 <u>+</u> 130	7.1		
	6 9 3	$6060 \pm 610$	32.4		
	6 9 <b>4</b>	$25400 \mp 2500$	43.9	21222 . 2122	
	6 95	15200 <u>∓</u> 1500	32.1	$\frac{31300 + 3100}{71000}$	66.3
	6 9 6	56800 <del>I</del> 5700	51.6	71900 77200	65.3
	697	58200 <del>I</del> 5800	51.8	$74100 \pm 7400$	66.0
	69 <b>8</b>	13300	27.2		
	699 701	774 <del>+</del> 77	2 <b>4.</b> 8 10.1	822 + 82	10.8
	702	16000 + 1600		23400 + 2300	10.8
	705	< 14.0	73.4	23400 + 2300	107
	707	187 <u>+</u> 19	<pre>&lt; 0.3 5.2</pre>		
190ct58	709	1170 + 120	27.2		
·	710	1270 <del>T</del> 130	1 <b>5.</b> 5		
	711	1690 <del>T</del> 170	21.9		
	712	1620 王 160	24.5		
	7 13	1680 <del>T</del> 170	21.4		
	715	1 <b>4</b> 50 <u>干</u> 1 <b>4</b> 5	7.6		
	716	$21700 \mp 2200$	23.4	2 3800 <u>+</u> 2400	25.6
	717	20500 干 2050	52.2	19 <b>40</b> 0 <u>∓</u> 1900	49.3
	718	$1160 \pm 120$	6.7		
	7 1 9	27 <b>4</b> 00 <u>∓</u> 2700	47.5	34200 <u>+</u> 3400	59.3
21Oct58	720	$1050 \pm 110$	17.2	400 . 40	4
	7 2 1	63 <b>4</b>	8, 1	482 <u>+</u> 48	6.2

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
21Oct58	722 7 23 7 24 7 25	1740 + 170 736 ∓ 74 332 ∓ 33 1350 <u>∓</u> 140	26.4 5.7 3.2 15.7		
22Oct58	726 727 728 730	5860 + 590 309 + 31 43.6 + 4 161 + 16	26.2 2.5 0.9 4.8	4790 <u>+</u> 480	21.4
	7 32 733	50500 <u>干</u> 5050 3630 <u>干</u> 360	48.9 19.4	61600 <u>+</u> 6200	5 9. 7
23Oct58	739 740 742	687 + 69 1240 <del>+</del> 120	5.4 16.3	50100 <u>+</u> 5000	30.6
25Oct58	734 7 35 7 37	$   \begin{array}{c}     269 + 27 \\     188 + 19 \\     214 + 21   \end{array} $	3.9 2.5 3.9	<u>&lt;</u> 2210	≤ 30,0
29Oct58	743 744 745 746 747	$   \begin{array}{r}     381 + 38 \\     1410 \mp 140 \\     1420 \mp 140 \\     2620 \pm 260   \end{array} $	5.7' 17.9 20.6 21.6	3080 + 310 1 <b>4</b> 50 + 150	25.3 15.0
	748 749	719 <u>+</u> 72 899 <u>+</u> 90	9.4 6.4	-	
29Oct58	751 752 753	119000 + 12000 9590 <del>+</del> 960 11500 <del>+</del> 1150	65.0 23.4 42.3		64.0
	755 756 757 759	17900 + 1800 1840 + 180 6360 + 640 2100 + 210	75. 7 14. 4 29. 4	30500 <u>+</u> 3100	129
	760 761	9360 ± 940 756 ± 760	17.7 39.0 26.6	14700 <u>+</u> 1500	61.3
3Nov58	763 765 766	453 + 45 3260 <del>+</del> 330 936 <del>+</del> 94	4.8 19.2 10.2	1240 <u>+</u> 120	7.3

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
3\\\ov58	767 768	343 + 34 1060 <del>+</del> 110	4, 1 17, 9	1400 ± 170	20 5
	769	798 7 80	5.5	1690 <u>+</u> 170	28.5
	770	11500 <del>+</del> 1150	32.8	16800 + 1700	47.9
	771	17500 7 1750	41.1	10000 11100	41.7
	7 72	$13100 \pm 1300$	33, 2		
	773	14200 <del>+</del> 1400	38.4	20000 + 2000	54.2
	7 74	14000 <del>T</del> 1400	34.6		+ <b>-•</b> -
	775	14600 Ŧ 1460	37.6		
	776	8870 <u>∓</u> <b>89</b> 0	39.1		
7Nov58	777	27300 <u>+</u> 2700	61.3	27700 + 2800	62.3
	778	15500 <del>T</del> 1550	50.3	<del>_</del>	
	779	20200 7 2000	47.7		
	780	8960 王 900	34.9		
	781	1360 <del>T</del> 140	24.7		
	7 82 783	1060 王 110 6620 <del>王</del> 660	18.7	2500 . 250	
	784	2990 <del>+</del> 300	33.6	2500 <u>+</u> 250	12.7
	785	660 <del>+</del> 66	13.3 7.5	$13500 \pm 1350$	60.1
	786	323 <del>+</del> 32	4.2		
	7 87	361 <del>+</del> 36	6.8		
	788	$\frac{168 \pm 17}{168}$	2.3		
15Nov58	789	418 + 42	5.0		
	790	<b>474</b> 0 ∓ <b>470</b>	35.5		
	791	13100 🛨 1300	41.7	12000 + 1200	38,2
	792	9320 <u>∓</u> 930	35.9	12000 <del>T</del> 1200	46.4
	793	130 <del>I</del> 13	2.5	_	
	795	164 + 16	3.8		
	7 97	$13300 \mp 1300$	43.8		
	798	<b>334</b> 00 <u>∓</u> 3300	50.3	39300 <u>+</u> 3900	59.4
16Nov58	801	1550 + 160	35, 9		
	8 02	2020 7 200	41.7	2480 + 250	51.3
	803	1630 ∓ 160	32, 2		
	8 0 <del>4</del>	677  68	24.2		
18Nov58	805	3100 ± 310	37.1		
	806	$20500 \mp 2100$	43.9	27300 + 2700	58.6
	807	7660 ∓ 770	27.3	_	-

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	<u>Sr⁸⁹</u> <u>Sr⁹⁰</u>	dpm Zr ⁹⁵ 1000 SCF	$\frac{z_r^{95}}{s_r^{90}}$
18Nov58	808 810 811 812 813 814 815	11600 + 1160 305 + 31 489 + 49 843 + 84 139 + 14 124 + 12 405 + 41	44.4 6.1 10.7 7.5 2.8 2.5 7.8	11300 + 1100	43.5
	816 817 818	466 + 47 1350 <del>+</del> 140	3.2 13.7	1960 <u>+</u> 200 2140 <u>+</u> 200	16.1 21.7
20Nov58	819 820 821	5640 + 560 13 70 + 140 1120 + 110	23.1 10.8 10.8	4090 <u>+</u> 410	16.7
21Nov58	823 824 825 826 827 828	518 + 52 2550 + 260 2340 + 230 3540 + 350 367 + 37	17.2 24.7 29.0 28.4 5.9	3460 <u>+</u> 350	3 3. 5
	829 8 30	536 <u>∓</u> 54 436 <del>∓</del> 44 260 <u>∓</u> 26	7.4 9.0 3.9	<u>&lt;</u> 1960	≤ 27.1
22Nov58	831 832 8 33 8 35 8 36	5640 + 560 4920 + 490 4640 + 460 5930 + 590 6340 + 630	24.3 23.0 29.0 27.5 24.9	8060 <u>+</u> 810	34.7
	8 37 838	5430 <u>+</u> 540	29.0	10500 <u>+</u> 1050	45.4
25Nov58	839 8 40 8 41 842 8 43 845	327 + 330  599 + 60 $ 10.0 + 1  67.5 + 7$	14.1 17.0 5.1 11.4	7730 <u>+</u> 770 632 + 63 4910 <del>1</del> 490	46.4 107
	846 847 848	6820 ± 680 7170 ± 720 5750 ± 580	27.9 29.9 28.4	4710 <u>T</u> 470	19.8

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr89 Sr90	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
25Nov58	851 852	10300 ± 1000 7630 ± 760	35.8 36.7	1 0800 <u>+</u> 1100	37.7
28Nov58	853	1960 + 200	25.4		
	8 54	26 <b>4</b> 0 <b>∓</b> 260	23,5		<b>50.0</b>
	8 5 5	_		8350 <u>+</u> 840	50.9
	856	5440 <u>+</u> 540	27.1		
	8 5 7	852 <del>T</del> 85	12.9	0/0 + 0/	16.4
	858	793 <del>I</del> 79	13.6	960 <u>+</u> 96	10, 4
	859	1050 <del>I</del> 110	16.9		
	8 60	1000 🛨 100	18.6	2390 + 2 <b>4</b> 0	31.0
	8 61	1890 <del>I</del> 190	24.5	2370 <u>T</u> 240	31.0
	862	307 ∓ 31	5.4 3.4		
	8 63	248 <del>T</del> 25	3.4		
	8 64	15 <b>4</b> <u>∓</u> 15	2,2		
3Dec58	865	2990 + 300	18.0		
	8 66	7410 <del>+</del> 740	21.8	8470 <u>+</u> 850	24.9
	8 6 7	4250 <del>T</del> 430	24.2		
	868	2320 Ŧ 230	27.1		
	8 6 9	1520 <u>∓</u> 150	20.4	•	
	8 70	2800 <u>∓</u> 280	26.9	4400 + 400	2 / 0
	871	2640 <del>+</del> 260 3380 <del>+</del> 340	24.4	4000 <u>+</u> 400	36.8
	8 72	$3380 \pm 340$	31.8		
	877	314 + 31	52.5	222 1 22	13.0
	8 78	238 ∓ 24	9.3	333 <u>+</u> 33	15.0
	879	< 169 ·			
	8 8 0	427 + 43	14.9	721 + 72	11.9
	881	698 7 70	11.5	721 <u>T</u> 72	1 1 . 7
	882	1120	17 <b>.4</b>		
5Dec58	873	1590 + 160	17.3		
	8 74	2 <b>2</b> 60 ∓ 230	22.2		
	8 7 5	3230 <u>∓</u> 320	25.4		
	876	3740 Ŧ 370	35.4	5390 <u>+</u> 540	51.0
	8 8 3	716 王 72	7.4		
	8 84	236 <del>I</del> 24	3.9		4 34 0
	886	65.8 <u>∓</u> 7	0.8	<u>&lt;</u> 2140	<u>&lt; 24.8</u>
9Dec58	887	1280 + 130	30.8	2090 +210	50.4
,50050	888	1720 <del>T</del> 170	39.0	2550 7-260	57.7
	8 8 9	< 40.4.		<b>-</b>	
	890	₹327			
	891	₹ 23,5			
	8 92	₹ 37,3			
	8 93	₹ 71.6			
	8 94	80.2 + 8	20.2		

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr 89 Sr 90	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
9Dec58	911 912 913 914	507 ± 51 264 <del>+</del> 26 219 <del>+</del> 22 < 113	14.7 19.3 34.7	813 <u>+</u> 15	23,5
	915 916 917 918	452 + 45 319 + 32 583 + 58 203 + 20	17.8 8.8 12.6 6.1	963 <u>+</u> 96	20.7
12Dec58	8 95 8 96 8 97 8 98	775 + 78 764 + 76 710 + 71 523 + 52	11.6 14.1 15.8 8.9		
	8 99 9 00 9 01 9 02	346 ∓ 35 101 ∓ 10 210 ∓ 21 135 ∓ 14	8. 1 2. 1 2. 8 1. 3	≤ 1930	<b>≤ 45,</b> 0
	9 03 9 04 9 05 9 07	5990 <u>∓</u> 600 3670 ± 370 3380 ∓ 340	18.1 21.7 21.6	<b>≤2</b> 580 12600 <u>+</u> 150	≤ 24,5 48.9
16Dec58	908 909 910	3900 ∓ 390 5890 ∓ 590 6720 <u>∓</u> 670	21.2 29.0 32.6	8810 <u>+</u> 88	42.7
1006636	919 920 922 924 925 926	439 ± 44 339 ± 34 79.4 ± 8 471 ± 47 732 ± 73	15.3 16.8 12.2 8.8 11.7	1060 <u>+</u> 13	36.9
	927 928 929 930 931 932 933	387 + 39 10400 + 1000 1290 + 130 437 + 44 339 + 34 300 + 30 167 + 17 300 + 30	6.5 37.2 31.3 26.8 36.3 24.1 18.9 30.4	<1510 10200 + 110 2340 ±23	<pre></pre>
19Dec58	935 936 937	6980 + 700 13100 + 1300 4200 + 420	21.7 25.5 17.3	1 <b>0100</b> <u>+</u> 120	19.6

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
19Dec58	938 939 941 942 943 944	8320 + 830 7800 + 780 14800 + 1500 11900 + 1200 459 + 46 299 + 30	23.3 23.8 21.4 23.3 8.2 4.9	10600 <u>+</u> 140	15.4
	945 946 947 948 949	516 平 52 712 平 71 246 平 25 117 平 12 105 <u>干</u> 11	11.3 10.4 4.7 2.4 2.1	≤ 2250≤ 2670	< 33.0° ≤ 51.6
23Dec58	952 953 954 956 957	9600 ± 960 8210 ± 820 6280 ± 630 22.2 ± 2 9.81 ± 1	30.4 33.1 32.2 6.3 4.2	1 1900 <u>+</u> 1 <b>4</b> 0	37.8
125 #6	958 959 960	214 ∓ 21 303 ∓ 30 565 ± 57	13.5 14.8 15.7	717 + 11 968 ± 15	35.0 26.9
12Sep 58 17Sep 58	9 6 1 96 2	67.9 <u>+</u> 7 1090 + 110	0.9 8.6	1250 <u>+</u> 130	0.0
19Sep58	963	296 <u>+</u> 30	1.7	< 2600	9.9 < 14.8
27Sep58	9 64 9 66	1140 + 110 144 + 14	6. 1 2. 1	394 ± 7	2,1
6Jan59	969 970 971 972 973 974	421 + 42 79.1 + 8 142 + 14 433 + 43 281 + 28 414 + 41	10.6 7.2 13.6 11.5 10.6 9.1	657 <u>+</u> 12	16.6
	775 976 977 978 979 980 981 984	540 ∓ 54 507 ∓ 51 5570 ∓ 560 983 ∓ 98 220 ∓ 22 < 3.39 4T.5 ± 4 < 46.1	11.8 10.2 26.4 25.9 25.4	1030 ± 100 7880 ± 790 2210 ± 220	20.6 37.3 58.4

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵	Zr 95 Sr 90
9Jan59	986 987 989 990	398 <u>+</u> 40 229 + 23	7. 2 3. 1	≤ 1490 ≤ 1680	<pre>&lt; 28.0</pre> < 18.6
	991 992 994 995 996	134 ± 13 2310 + 230 4230 ± 420 1950 ± 200	2.0 14.7 22.2 12.5	≤ 2230 7130 <u>+</u> 710	≤ 26.1 37.5
1 <b>3</b> Jan59	997 1000 1001 1002 1004 1005	1570 + 160 941 ∓ 94 14.2 ∓ 1 98.7 ∓ 10 78.6 ∓ 8 258 ∓ 26	10.7 6.3 6.8 6.0 5.8 7.2	4220 <u>+</u> 55 211 <u>+</u> 3 586 <u>+</u> 8	28.1 12.9 16.3
16Jan59	1006 1007 1008 1009 1011	426 ± 43 2280 ± 230 1520 ± 150 4020 ± 400 6590 ± 660	1 1.7 18.0 9.8 14.2 17.1	<u>≤</u> 2360	≤ 18.1
	1012 1013 1014 1015 1016 1017	4230 ∓ 420 4510 ∓ 450 3990 ∓ 400 284 ∓ 28 369 ∓ 37 1100 ∓ 110	13.7 14.0 12.7 4.7 6.3 17.0	8720 <u>+</u> 120	27.0
	·1 020 1 022	233 <u>+</u> 23	7. 8	<2610 548 <u>+</u> 9	$ \leq 26.0 $ 18.3
19Jan59	1 023 1 024 1 025 1 026	3850 + 390 3390 ∓ 340 2500 ∓ 250 3740 ∓ 370	13.4 11.7 10.2 26.8	4310 <u>+</u> 69 <2550	15.0
22Jan59	1 027 1031 1 032	131 + 13 211 ∓ 21 375 ∓ 38 251 ∓ 25	10.8 7.9 12.7	≤ 986	≤ 37.0
	1033 103 <b>4</b>	251 ± 25 233 <u>∓</u> 23	9.4 5.4	_< 1060	≤ 24.7

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
25Jan59	1035 1036 1037	2870 <u>+ 2</u> 90 3120 <u>+</u> 310	11.8 13.4	<b>4</b> 720 <u>+</u> 76	17.8
28Jan59	1039 1040 1041 1042 1043	184 + 18 157 + 16 663 + 66 2100 + 210 367 + 37	12.1 16.3 23.2 17.4 21.2	3380 <u>+</u> 54	28.0
	1044 1047 1048 1049 1050	1390 ∓ 140 205 ∓ 21 139 ∓ 14 92.8 ∓ 9 92,3 ∓ 9 256 ∓ 26	24.2 11.7 11.6 15.6 14.4	1620 <u>+</u> 16	28,2
	1052 1053 1054	$ \begin{array}{c} 243 & \pm 24 \\ 188 & \pm 19 \\ 52.5 & \pm 5 \end{array} $	5.2 3.2 0.8	<pre>&lt; 1320 </pre> <pre>&lt; 1370</pre>	<pre>&lt; 28.2 &lt; 23.3</pre>
3Feb59	1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065	21.1 + 2 21.1 + 2 21.1 + 2 21.1 + 2 21.1 + 2 84.7 + 8 156 + 16 239 + 24 217 + 22 <33.0 <33.0 <33.0	7.4 7.4 7.4 8.3 6.0 4.8 4.6 <13.1 <13.1	≤ 985 < 1020	≤ 38.1 ≤ 21.6
6Feb59	1071 1072 1073 1074 1075 1076 1077	1680 + 170 1780 + 180 2080 + 210 2320 + 230 1420 + 140 1000 + 100 595 + 60	16.1 17.5 14.4 14.5 10.7 14.2	3280 <u>+</u> <b>4</b> 9	20.6
	1 078 1 080 1 081	595 ∓ 60 511 ∓ 51 287 ∓ 29 288 ∓ 29	11.3 5.9 9.4	1230 <u>+</u> 55	27.1

'Table 4.4 (continued)

Date	Sample No.	ipm Sr ⁸⁹	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
6Feb59	1082 1083 1086	338 + 34 205 + 21 259 + 26	8.9 5.0 4.3	< 1490 < 1720	≤ 39.2 < 28.3
1 <b>0Feb5</b> 9	1087 1088 1089 1090 1091 1092	143 + 14 99.9 + 10 89.8 + 9 66.0 + 7 198 + 20 282 + 28	7.5 8.6 15.3 10.5 8.5 7.0	≤ 1220	<u>&lt;</u> 52.0
	1 093 1094 1095 1096 1 097 1098	210 ± 21 210 ± 21 ≤ 69.4 175 + 18 86.4 ± 9 59.7 ± 6	4.9 5.0 22.6 16.8 11.3	≤ 1220 ≤ 954	≤ 29.1 ≤ 186
l4Feb59	1099 1100 1101 1 102 1106 1 108 1 109 1 110 1111	188 ± 19 246 ± 25 543 ∓ 54 529 ∓ 53 81.2 ∓ 8 2180 ∓ 220 1600 ± 160 1580 ± 160 3310 ∓ 330 2850 ∓ 290	3.4 4.0 6.7 5.8 1.7 11.0 9.0 8.0	<pre></pre>	<pre>     33.7     22.8     10.9     16.2</pre>
17 <b>Feb5</b> 9	1113 1 114 1115 1 116 1117	1960 ± 220 2390 ± 240 93.0 ± 9 102 ± 10 112 ∓ 11	11.7 11.8 12.4 7.7 9.9 11.5	≤ 874	<u>≤</u> 84.8
	1 118 1 121 1122	110 ± 11 115 ± 12 120 ± 12	8.5 13.6 9.6	≤ 1030	≤ 123
20Feb <b>5</b> 9	1125 1126 1128 1129	$   \begin{array}{c}     1900 + 190 \\     1680 + 170 \\     1110 + 110 \\     2300 + 230   \end{array} $	7.9 7.7 6.3 7.9	2210 + 33 3520 + 42	12.6 12.1

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	<u>sr⁸⁹</u> sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	$\frac{2r^{95}}{8r^{90}}$
20Feb59	1130 1131 1132 1133	2180 + 220 2080 + 210 1480 + 150 134 + 13	11.6 11.4 9.3 2.6		
	1 134 1135 1136 1137	188 ± 19 466 ± 47 988 ± 99 88.7 + 9	3.7 6.5 8.9 4.9	≤ 2110	≤ 29.3
	1138 1139 1140	143 ∓ 14 154 ∓ 15 166 ∓ 17	5.3 5.3 6.9	<u>≤</u> 924	≤ 31.7
24Feb59	1141 1142 1143 1144 1147 1148 1149	157 + 16 58.5 ∓ 6 303 ∓ 30 1410 ∓ 140 234 ∓ 23 219 ∓ 22 2130 ∓ 210 2230 ∓ 220	3.3 1.0 5.2 8.0 4.9 3.3 9.1 9.6	<2320 2020 <u>+</u> 230	< 39.7 11.4
	1 151 1 152 1 153 1 156	1790 ∓ 180 2050 ∓ 210 2130 ∓ 210 2380 ± 240	7.4 6.8 9.0 9.6	4350 ± 57 4750 ± 67	14.4 20.1
28Feb59	1157	00.0.10	10 /	<u>&lt;</u> 1170	< 94.2
	1161 1162 1163 1164	98.8 + 10 226 + 23 40.2 + 4 24.2 + 2	10.6 13.6 10.5	≤ 1130	≤ 67.7
	1165 1167	109 王 11 160 王 16	4.2 8.9 3.1	<u>≤</u> 1050	≤ 86.5
	1169 1170	139 <del>+</del> 14 62.3 <del>+</del> 6	2.2 1.1	≤ 1190	≤ 20.1
3Mar59	1171 1172 1173 1174 1175 1176	24.1 + 2 234 + 23 293 + 29 503 + 50 9.45 + 9 37.2 + 4	0.4 4.5 3.7 4.8 4.1 3.4	< 1800 <u>2330</u>	< 22.4 < 22.1

Table 4.4 (continued)

Date	Sample No.	dpm 5r89 1000 SCF	Sr 89 Sr 90	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
3 Mar 59	1179 1180 1181 1 182 1183	2080 + 210 1940 ∓ 190 2110 ∓ 210 1180 ∓ 120	7.9 6.9 8.4 5.2	2540 + 31 3500 + 53	1 1.2 12.4
6Mar59	1186 1188 1189 1190	1110 ± 110 1400 + 140 1630 + 160 1630 + 160 1030 + 100	8.9 7.0 7.4 6.9	<b>3040 + 4</b> 6	12.8
	1191 1192 1193 1196 1197	2100 ∓ 210 752 ∓ 75 139 ∓ 14 294 ∓ 29	11.2 10.1 3.8 2.1 4.9	2500 +35	12.0
10Mar59	1198 1202 120 <del>4</del> 1 <b>2</b> 06	784 ∓ 78 139 <u>∓</u> 14 155 + 16	5.5 3.6 4.4	≤ 3030 ≤ 1020 ≤ 1520	<pre>   21.2   26.5   27.9</pre>
	1207 1208 1209 1210 1211 1212	155 + 16 102 + 10 165 + 17 130 + 13 119 + 12 1090 + 110	3.4 2.9 2.4 2.1 7.4	<u>&lt;</u> 1270	≤ 22,3
	1213 1214 1215 1216 1217 1218	$\begin{array}{c} 950 \ \mp 95 \\ 1110 \ \mp 110 \\ 1230 \ \mp 120 \\ 777 \ \mp 78 \\ 399 \ \mp 40 \\ 274 \ \mp 27 \\ 185 \ \mp 19 \end{array}$	8.2 8.4 7.5 7.9 5.0 5.4 8.1	2000 <u>+</u> 34 1980 <u>+</u> 30	12.1 20.0
13Mar59	1219 1222 1223 1 224	108 ± 11 4.15 ± 0.4 49.3 ± 5 40.6 ± 4	5.8 1.1 0.8 0.6	< 1040	<b>&lt; 56.</b> 0
	1 <b>225</b> 1 <b>227</b>	192 <del>+</del> 19 237 <del>+</del> 24	2.5 11.0	< 2230	≤ 29.1

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
13Mar59	1228 12 <b>2</b> 9 1230 1231	409 + 41 492 + 49 840 + 84 104 + 10 183 + 18	10.3 8.0 8.3 5.7	22 <b>3</b> 0 <u>+</u> 27	22.0
	1 232 1233	183 + 18 $47.3 + 5$	19.2 8.9	≤ 1094	≤ 115
17Mar59	12 <b>35</b> 1236	98.8 ± 10 245 ± 25	1.7 3.8		
	1237 1238	274 ∓ 27 353 ∓ 35	3.1 3.6	<u>&lt;</u> 1860	≤ 21.3
·	1 239 1 240	49.2 ± 5 39.8 ± 4 9.62 ± 1	4.4 3.0	<b>≤</b> 640	≤ 56.9
	1241 1243 1244	9.62 <u>+</u> 1 1300 + 130 1420 <del>+</del> 140	1,2 7,0 7,3		
	12 <b>45</b> 12 <b>47</b>	1300 <del>†</del> 130 1230 <del>†</del> 120 1190 <del>†</del> 120	6.3 5.5	3100 + 37 $2200 + 42$	15.0 9.9
	1248 1249 1250	1190 + 120 1130 <del>+</del> 110 612 <del>+</del> 61	5.8 6.9 5.8		
20Mar59	1252	915 + 92	3.4		
	1253 125 <b>4</b>	1010 <u>∓</u> 100 1080 <del>∓</del> 110	5.1 4.9	2420 <u>+</u> 34	12.2
	1255 1 256 1257	1370 <del> </del>	6.7 6.6 6.4	2590 <u>+</u> 34	12.7
	1258 1 <b>259</b> 1260	734 王 73 147 <del>王</del> 15 192 <del>王</del> 19	5.2 2.8 3.9		
	1 261 1262 1264	529 <u>∓</u> 53	5.5	≤ 2703	≤ 14.2
	1 266	31.8 <u>+</u> 3	6,5	<u>&lt;</u> 895	≤ 39.7
24Mar59	1267 1268	92.2 + 9 $219 + 22$	9.9 10. <b>5</b>	2010 1 22	22.6
	1269 1270 <b>1</b> 271	496 <u>干</u> 50 796 <u>干</u> 80 79.2 <u>干</u> 8	8.1 7.4 9.9	2010 <u>+</u> 32 1200 <u>+</u> 22	33.0 11.0

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	sr ⁸⁹ sr ⁹⁰	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
24Mar59	1273 1274 1283 1284 1285 1287	48.1 ± 5 80.5 ± 8 45.8 ± 5 33.9 ± 3 20.3 ± 2 113 ± 11 125 ± 13 104 ± 10	9.4 10.4 4.3 7.6 6.6 4.6 3.4	≤ 1150	<b>≤ 4</b> 7.0
	1289 1290	$104 + 10$ $13 \pm 11$	2.3 2.3	≤ 1470	< 32.2
27Mar59	1275 1276 1277 1278	1230 + 120 1130 + 110 1120 + 110 1520 + 150	6.1 5.5 5.9 5.2	2990 <u>+</u> 5 <b>4</b>	14.5
	1279 1280 1281 1282 1291 1292 1293	1350 + 130 1350 + 140 1420 + 140 892 + 89 718 + 72 122 + 12 224 + 22 116 + 12	5.8 6.4 5.6 4.6 2.0 3.4	3300 <u>+</u> 56	14.1
	129 <del>4</del> 1296 1298	362 <del>+</del> 36 47.8 <del>+</del> 5	2.0 4.9 0.8	≤1910 ≤ 2510	<pre></pre>
fApr59	1301 1302 1303 1304 1305 1306	980 ± 98 1100 ± 110 1060 ± 110 1530 ± 150 1900 ± 190 2690 ± 270	6. 0 5. 1 5. 2 6. 8 6. 3 6. 6	2540 + 41 3460+ 55	- 8.4 8.4
3Apr 59	1307 1308 1309	430 + 43 838 ∓ 84 807 ∓ 81	6.1 7.2 6.6	_	
	1310 1311 1312 1313 1 314	988 <del>+</del> 99 375 <del>+</del> 38 405 <del>+</del> 41 265 <del>+</del> 27 147 <del>+</del> 15	6.4 5.7 7.2 6.4 3.3	1990 <u>+</u> 36 1100 <u>+</u> 16	12.9 16.5
	1317 1318	53.2 ± 5 67.5 ± 7	2.4 2.4	<u>&lt;</u> 1050	<u>&lt; 46.4</u>

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	<u>sr⁸⁹</u>	dpm Zr ⁹⁵ 1000 SCF	Zr 95 Sr 90
7Apr59	1321 1322 1323 1324 1326 1 327	98.3 ± 10 129 ± 13 62.9 ± 6 67.2 ± 7 39.9 ± 4 158 ± 16	1.7 2.7 1.9 10.1 5.4 6.8	≤ 1180	≤ 20.1
	1 328 1 329 1 330 1 331 1 332 1 333 1 334	315 + 10 604 + 60 1129 + 110 56.3 + 6 12.8 + 1 20.5 + 2 16.4 + 2	7.1 5.5 5.4 7.0 2.0 8.8 9.2	895 ± 16 983 ± 15 1380 ± 18	20.1 8.9 6.6
10Apr59	1335 1336 1337 1338 1339 1340 1341 1342 1343	1130 ± 110 874 ± 87 1320 ∓ 130 1030 ∓ 100 881 ∓ 88 1090 ∓ 110 819 ∓ 82 91.7 ∓ 9 98.9 ± 10 39.3 ± 4	6.2 5.0 6.0 4.6 4.8 7.0 5.2 1.8 1.9	1630 ± 28 1740 ± 30 < 1820	7.4 9.6 <u>&lt;</u> 35.6
1 <b>4</b> Apr <b>5</b> 9	1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366	1640 ± 160 1470 ± 150 1740 ± 170 1950 ± 200 1620 ± 160 3610 ± 360 4140 ± 410 2490 ± 250 2090 ± 210 2080 ± 210 989 ± 99 1330 ± 130 2320 ± 230	12.2 11.4 10.6 11.3 10.8 11.7 10.8 8.7 9.7 8.9 7.7 9.7 8.9	3300 + 33 2460 + 27 3550 + 35 3870 + 35 3880 + 47 5170 + 46 6610 + 46 4370 + 17 4290 + 43 3520 + 35 2 920 + 35 1680 + 15 2020 + 12 3 710 + 26	24.6 19.2 21.6 22.4 25.7 16.7 17.3 15.2 20.1 16.3 12.5 13.0 14.7 13.3

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	<u>Sr⁸⁹ Sr⁹⁰</u>	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
17Apr59	1346 1347 1348 1349	78.9 + 8 229 + 23 468 + 47 715 + 72	5.8 5.6 4.5 5.6	801 + 15	7.7
	1350 1368	715 <del>+</del> 72 23.5 <del>+</del> 2 18.1 <del>+</del> 2	2.4 1.4	1310 <u>∓</u> 27	10,3
	1 369 1370 1371	$   \begin{array}{c}     107 \mp 11 \\     32.3 \mp 3 \\     14.2 \mp 1   \end{array} $	6·7 1.4 3.6	136 <u>+</u> 1	8,6
	1372 137 <b>3</b>	7.94 ± 1 14.2 ± 2	1.3 3.6	53.1 <u>+</u> 0.9	8.4
19Apr59	1374 1375 1376	614 + 61 697 + 70 748 + 75	4.2 4.3 5.0	934 <u>+</u> 14	6.3
	1377 1378 1379 1380	648 ∓ 65 938 ∓ 94 894 ∓ 89 755 ∓ 76	4.0 5.3 3.8 3.2	1190 <u>+</u> 19	7.2
21Apr59	1382 1384 1385 1386 1388 1389	345 + 35 470 + 47 348 + 35 1360 + 140 1260 + 130 1190 + 120	3.6 4.9 3.2 5.1 4.7 5.4	1190 <u>+</u> 19 1190 <u>+</u> 17	12.5 11.0
22-29Apr59	1663 1664 1665 1666 1667 1668	424 + 42 411 + 41 348 + 35 527 + 53 405 + 41	2.2 1.6 1.6 3.6 2.3	1 060 + 15 1460 + 18 498 + 5 1270 + 20 1290 + 13 1080 + 17	5,4 5,7 9,5 5,8 8,8 6,0
24Apr59	1390 1391 1392 1393	288 + 29 33.8 + 3 52.4 + 5	4.1 0.6 0.8	<u>-</u> ≤ 1920	≤ 26.7
26Apr59	1 394 1395 1396 1397	797 ± 80 691 ± 69 738 ± 74 627 ± 63	3.5 3.8 4.1 3.8	1040 <u>+</u> 23	4.6
	1398 1399 1400 1401	715 <del>+</del> 72 849 <del>+</del> 85 736 <del>+</del> 74 708 <del>+</del> 71	3.6 3.9 2.4 3.6	998 <u>+</u> 18	5.0

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	sr ⁸⁹ sr ⁹⁰	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
28Apr59	1402 1404 1405 1406 1407 1408 1409 1410 1411 1412	543 + 54 547 + 55 504 + 50 355 + 36 215 + 22 168 + 17 107 + 11 67.0 + 7 105 + 11 25.8 + 3 20.5 + 2	3.5 3.4 4.3 3.9 5.1 4,1 1.3 2.7 1.5	1090 + 20 1080 + 35 1170 + 22	7. û 7. 0 8. 0
1 May 5 9	1414 1415 1416 1417 1418 1419 1420	87.0 + 9 92.7 + 9 185 + 19 498 + 50 18.4 + 2 25.1 + 3 29.1 + 3 27.5 + 3	4.7 5.9 4.1 4.2 2.7 4.0 2.1 1.5	726 <u>+</u> 15	6.1
5May59	1422 1423 1 424 1 425 1426 1 427 1428 1429 1 430	124 + 12 154 + 15 207 + 21 533 + 53 78, 2 + 8 389 + 39 470 + 47 980 + 98 1360 + 140	1.7 2.0 2.8 3.5 2.7 2.5 2.7 4.4 4.6	≤ 2600 1500 <u>+</u> 26	≤ 16.9 5.1
8May59	1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441	273 + 27 278 + 28 543 + 54 475 + 48 261 + 26 252 + 25 168 + 17 213 + 21 57.1 + 6 76.5 + 8 51.4 + 5 78.0 + 8	4.9 3.9 3.0 4.0 3.9 4.2 6.5 0.9 1.2 0.8		

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	Sr89 Sr90	dpm Zr ⁹⁵	2:r ⁹⁵ Sr ⁹⁰
12May59	1443	58.7 ± 6 6.19 ± 1	1.6		
	1444	6.19 + 1	0.5		
	1445	$9.33 \pm 1$	2.8		
	1 <b>449</b> 1 <b>4</b> 50	34.4 <del>I</del> 3	0.5		
	1451	65.0 <del>T</del> 7	3.2		
	1452	54.1 <u>干</u> 5	4.1		
	1453	20.8 <del>+</del> 2 20.8 <del>+</del> 2	6.4		
	1454	20.8 + 2	6.4		
	1455		6.4		
	1433	20.8 1 2	6.4		
15May59	1 <b>4</b> 56	29.6 <u>+</u> 3	1.9		
10-11-4707	1457	28.7 <del>+</del> 3	1.3		
	1459	83.5 + 8	2.1		
	,	<u> </u>	<b>-,</b> 1		
17May59	1460	58.8 + 6	2.7		
•	1461	236 7 24	4, 2		
	1462	572 <del>+</del> 57	4.4	893 <u>+</u> 19	6.8
	1463	404 + 40	2.5	0/3 <u>+</u> 1/	0,0
	1 <b>4</b> 65	3 <b>4</b> 5 ∓ 35	3, 0		
	1 <b>4</b> 66	468 + 47	3.4	745 <u>+</u> 20	5.5
	1 <b>4</b> 67	515 <del>+</del> 52	3. 0	· <u>-</u>	3.3
	1 <b>4</b> 68	620 🛨 62	3.6		
	1469	710 ∓ 71	3.5	$898 \pm 19$	4.5
	1 <b>4</b> 70	751 <del>∓ 75</del>	3.9	<u> </u>	-,,
	1471	692 <u>∓</u> 69	2.9		
20May59	1472	595 <u>+</u> 60	5.5	1060 + 110	9.8
-	1463	515 <u>∓</u> 52	4.7	775 ∓ 78	7, 1
	1474	515 <del>+</del> 52 311 <del>+</del> 31	<b>4.</b> 1		
	1475	17 <b>9 +</b> 18	3, 2		
	1476	523 <del>+</del> 52	4.1		
	1477	415 7 42	3.0		
	1478	423 干 42 301 干 30	3.0		
	1479	$301 \pm 30$	2.9		
	1480	_110 <u>∓</u> 11	1.6		
	1481	70.6 ± 7	0.7		
	1482	70.6 <del>1</del> 7 259 <del>1</del> 26	2.5		
	1483	407 + 41	3.3		
	1484	40.0 ± 4	1.6		
	1485	16 <b>.2</b> <u>∓</u> 2	1.1		

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	<u>Sr⁸⁹</u> Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
20May59	1486 1487	28.1 + 3 22.8 <del>+</del> 2	1.4 1.2		
22May59	1488 1489 1490 1491	$ 36.1 \pm 4 61.1 \pm 6 72.1 \pm 7 121 \pm 12 $	0.6 0.9 1.2 1.8		
24May59	1492 1493 1494 1495 1496 1497 1498	582 + 48 661 + 66 464 + 46 480 + 48 505 + 51 606 + 61 748 + 75	4.2 5.7 3.4 4.1 2.4 2.7 3.2	< 2070 <b>,</b>	≤ 17.6
	1499	<del>-</del>	· ·	<b>≤ 2850</b>	< 10.6
26May59	1500 1501 1502 1503 1504 1505 1506 1507 1509 1510 1511 1512	207 ± 21 363 ± 36 373 ± 37 347 ± 35 91.5 ± 9 95.6 ± 10 118 ± 12 88.1 ± 9 82.9 ± 8 50.4 ± 5 40.3 ± 4 13.1 ± 1 34.5 ± 3	2.0 2.5 2.4 3.1 1.9 2.2 3.0 4.8 2.1 1.4 1.7 1.6 0.6	< 1950 ₹ 1500	≤ 13.4 ≤ 9.6
29May59	1519	34.7 <u>+</u> 3	0,8		
2Jún59	1520 1521 1522 1523 1524	592 + 59 430 + 43 421 + 42 495 + 50 395 + 40	2.8 2.1 2.2 2.5	4 204 0	4.18.5
	1524 1525 1526	395 <u>+ 4</u> 0 495 <del>+</del> 50 454 <del>+</del> 45	2.2 2.6	<u>&lt;</u> 2840	≤15.9
	1 527	797 <u>T</u> 79	2.0	≤ 3360	≤ 10.9

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	<u>sr⁸⁹</u> <u>sr⁹⁰</u>	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
2Jun59	1528 1530 1531	305 ± 31 253 ± 25	2, 1 3, 8	≤ 2260	≤ 20.0
	1 532 1 533 1536 1538	920 ∓ 92 960 ∓ 96 108 <del>+</del> 11 138 <del>+</del> 14	3.4 2.9 1.3 2.1	≤ 3720	< 11.2
5Jun59	1 541 1 546	325 + 33	4.5	≤ 40¹	≤ 7,0
	1547 1548 1549 1550 1551 1552 1553	238 <del>+</del> 24 357 <del>+</del> 36 278 <del>+</del> 28 90.3 <del>+</del> 9 70.7 <del>+</del> 7 71.0 <del>+</del> 7 159 <del>+</del> 16 50.7 <del>+</del> 5	2.8 3.3 2.4 1.7 1.9 2.3 2.3	< 1570 < 1780	< 14.4 < 15.5
9Jun59	1561 1562 1563 1564 1565 1566 1567 1568 1569	20.7 + 2 20.7 + 2 35.1 + 4 45.3 + 5 153 + 15 78.7 + 8 140 + 14 167 + 17 188 + 19	3.8 3.8 2.3 2.1 3.0 2.8 2.6	<u>≤</u> 805	< 14.7
1 <b>2J</b> un59	1570 1573	91.5 <u>∓</u> 9	2.9 3.6	4 8440	
120 0113 7	157 <b>4</b> 1575	312 + 31 433 + 43 412 + 41	1.9 2.8 2.3	<b>≤ 244</b> 0	≤ 15.2
	1 576 1577 1 578 1580 1581	383 ∓ 38 282 ∓ 28 281 ∓ 28 244 ∓ 24 407 ∓ 41	1.8 1.7 1.9 1.2 2.0	≤ 2680	≤ 12.4
	1 582 1583 1584	425 ± 43 314 ± 31 421 ± 42	1.8 1.7 1.7	≥ 3030 ≥ 3030	< 12.8 < 16.3

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	<u>5r⁸⁹</u>	dpm Zr ⁹⁵	Zr ⁹⁵ Sr ⁹⁰
12Jun59	1585	277 + 28	1.9		
	1 586	218 722	1.6		
14Jun59	1591	155 <u>+</u> 16	2,2		
	1 5 9 2	135 ∓ 14	1.9		
	1 5 9 4	261 7 26	1.9	- 13/0	
	1599	215 <del>+</del> 22	1.5	≤ 1360	< 10.0
	1 600	312 7 31	1.9		
	1601	312 <del>+</del> 31 364 + 36	2.5	4 1020	
	1602	292 7 29	2.3	<_1830	< 12.4
	1603	246 <del>T</del> 25	1.8	₹1930	₹ 15.1
	1604	228 <del>+</del> 23	1.5		
	1605	313 731	1.6	4 2020	
	1606	330 7 33	2.3	< 2070	$\leq 10.8$
	1607	295 〒30	1.7	₹ 2190	₹ 15.0
	1608	300 <del>+</del> 30	1.6		
	1609	1180 +120	7.3	4 2500	
	1610	545 <del>T</del> 55	2.2	<u>&lt;</u> 2780	< <u> </u>
	1611	380 7 38	1.8		
	1612	437 <del>T</del> 44	2.1		
	1613	739 <del>T</del> 74	3.7	4 3000	
			J. 1	< <u>3090</u>	≤ 15.5
16Jun59	1615	237 + 24	1.9		
	1616	$182 \pm 18$	î.ó		
	1617	218 7 22	2,1		
	1618	258 <del>T</del> 26	2.4	< 000	
	1619	209 Ŧ 21	1.8	≤ 990	< 9.1
	1620	343 <del>+</del> 34	2.4	620 <u>+</u> 10	
	1621	170 <del>T</del> 17	0.9	703 1 12	4.4
	1622	351 <del>+</del> 35	2.3	793 🛨 13	4.1
	1 623	335 <del>T</del> 34	2.1		
	1 625	200 ¥ 20	ī. i		
	1 6 <b>2</b> 6	307 <del>  3</del> 1	1.7		
	1627	<b>357</b> ∓ 36	i.6		
	1628	473 干 47	2.2	< 1740	404
	1629	426 <del>+</del> 43	1.7	<u>≤</u> 1760	< 8.4
	1630	<b>321</b> ∓ <b>32</b>	1.3	< 1980	- 0 -
	1631	262 <del>T</del> 26	1.1		< 8.2 ₹ 18.2
	1632	262 <del>+</del> 26 293 <del>+</del> 29	î.ô	2 4300	₹18.3
	·1633	387 7 39	1.5		
	1 6 <b>34</b>	339 + 34	1.2		

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	<u>Sr⁸⁹</u> Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
16Jun59	1656 1657 1661	201 + 20 425 <del>+</del> 43 86.5 <del>+</del> 9	1.2 3.2 1.7		
19Jun59	1639 1640 1642 1643 1644 1645 1646 1647 1648 1649 1650	111 + 11 230 + 23 208 + 21 225 + 23 142 + 14 153 + 15 397 + 40 463 + 46 208 + 21 325 + 33	1.1 2.1 2.0 2.1 1.3 0.6 1.7 1.9 0.8	639 ± 8 786 ± 10 ≤ 2560 ≤ 2450	5,8 7,3 <_10,9 < 9,4
21Jun59	1652 1653 1654 1673 1674	68.2 <del>+</del> 7 273 <del>+</del> 27 520 <del>+</del> 52 553 <del>+</del> 55	0.7 1.5 1.8 1.5	1280 <u>+</u> 15 ≤1970	3.5 ≤10.6
	1675 1676 1677 1678 1679 1680	$ \begin{array}{c} 211 & + 21 \\ 149 & + 15 \\ 12.0 & + 1 \\ 187 & + 19 \end{array} $ $ \begin{array}{c} 49.6 & + 5 \\ 156 & + 16 \\ 250 & + 25 \end{array} $	1.0 0.1 1.6 0.3 1.4 1.8	<u>≤</u> 2230	≤ 11,1
	1681 1682 1683 1684 1685	308 ± 31 44.8 ± 4	1.4 0.2 0.3	≤ 3010 ≤ 3520	≤ 13.5 ≤ 16.0
	1687 1688	63.8 ∓ 6 219 ∓ 22 239 ∓ 24 383 ∓ 38	0.9 1.0 1.4	<u>&lt;</u> 3440 ≤ 3780	≤ 16.0   ≤ 13.8   ≤ 14.1

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	<u>Sr⁸⁹</u> Sr ⁹⁰	dpm Zr ⁹⁵ 1000 SCF	Zr ⁹⁵ Sr ⁹⁰
23Jun59	1 690	342 <u>+</u> 34	1.7		
	1691	175 🛨 18	0.9		
	1 692	<b>323 ∓ 32</b>	1.7		
	1 693	374 <del>T</del> 37	1.8		
	1 69 <b>4</b>	463 + 46	1.8	< 4860	≤ 19.1
	1695	32 <del>4 +</del> 32	1.7	₹ 3480	< 18.1
	1 696	<b>305 ∓3</b> 1	1.4	_	-
	1697	381 <del>T</del> 38	1.7		
	1698	528 <del>T</del> 53	2.4	< 4380	< 20.3
	1699	223 7 22	1.2	609 + 8	< 20.3 3.2
	1700	280 <del>T</del> 28	1,3		
	1 701	384 <del>+</del> 38	1.3		
	1 702	622 <del>+</del> 62	1.8	<b>≤</b> 3860	≤ 11.1
	1703	426 <del>+</del> 43	1.4		
	1 724		- • -	<b>≤ 34</b> 80	≤ 19.7

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	<u>sr⁸⁹</u> <u>sr⁹⁰</u>	Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	5r ⁸⁹ 5r ⁹⁰
26Jun59	1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717	302 + 30 307 + 31 387 + 39 331 + 33 275 + 22 232 + 23 382 + 36 356 + 36 371 + 37 236 + 24 291 + 29 228 + 23 230 + 23 291 + 29	1.8 1.8 1.7 1.2 1.1 2.5 2.6 2.8 1.5 2.3 1.8 2.1	7Ju159	1769 1770 1773 1774 1775 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786	202 + 20 255 \ \frac{1}{2}66 411 \ \frac{1}{4}11 130 \ \frac{1}{1}7 159 \ \frac{1}{1}6 170 \ \frac{1}{1}7 159 \ \frac{1}{2}16 209 \ \frac{1}{2}18 84.2 \ \frac{1}{4}8 310 \ \frac{1}{3}12 279.2 \ \frac{1}{4}8 54.8 \ \frac{1}{5}112 \ \frac{1}{1}11 140 \ \frac{1}{1}40	1.1 1.4 3.4 1.1 1.2 1.0 1.3 2.3 1.9 1.6 1.2
1Jul 59	1719 1720 1733	199 <del>+</del> 20 73.0 <del>+</del> 7	1.7	10Ju159	179 <b>4</b> 1800	62.6 <u>+</u> 6 24.8 + 2	2.5 0.9
1301 59	1735 1736 1737 1742 1743 1745 1746 1747 1748 1749 1751	104 ± 10 42.3 ± 4 120 ± 12 273 ± 27 255 ± 26 115 ± 12 238 ± 24 7.80 ± 1 75.1 ± 8 161 ± 16 340 ± 34 208 ± 21 247 ± 25	1.0 0.4 0.9 1.9 1.6 7.7 0.3 1.9 3.8 2.5 1.1	1 <b>4</b> Jul59	1802 1803 1805 1810 1811 1812 1813 1814 1815 1818 1820	35.7 \( \frac{7}{4} \) 154 \( \frac{1}{15} \) 156 \( \frac{1}{1} \) 161 \( \frac{1}{15} \) 361 \( \frac{1}{15} \) 361 \( \frac{1}{15} \) 231 \( \frac{1}{12} \) 232.4 \( \frac{1}{12} \) 152 \( \frac{1}{15} \) 152 \( \frac{1}{15} \) 349 \( \frac{1}{15} \) 181 \( \frac{1}{1} \) 181	0.4 1.2 1.3 0.8 1.7 1.0 3.9 0.4 0.8 0.7 2.4
3Ju159	1758 1759 1760 1761 1763 1765 1766	488 + 49 541 + 54 352 + 35 261 + 26 350 + 35 214 + 21 708 + 71	1.5 1.9 1.5 1.4 1.4 0.8 3.0	-	1825 1826 1828 1829 1830 1831 1832 1834	181 # 18 738 # 74 254 # 25 378 # 38 119 # 12 224 # 22 105 # 11 291 # 29 229 # 23	0.8 3.0 1.2 1.8 0.5 0.9 0.6 1.4
7Ju159	1768	288 <u>+</u> 29	1.6		1837	$309 \pm 31$	1.0

Table 4.4 (continued)

Date	Sample No.	dpm Sr ³⁹ 1000 SGF	Sr ⁸⁹ Sr ⁹⁰	Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰
14Ju).59	1838 1840 1841	412 + 41 422 <del>+</del> 42 484 <del>+</del> 48	1.8 1.5 1.7	21Ju159	1898 1899 1901 1902	149 + 15 220 + 22 354 + 35 180 + 18	1.0 1.9 1.9
16Ju159	186 <b>4</b> 1865	193 + 19 115 <u>+</u> 12	1.9 0.8		1903 190 <b>5</b>	464 ∓46 161 ∓16	0.9 3.5 0.8
17Ju159	1843 1844 1845 1848 1849	196 + 20 200 + 20 297 + 30 229 + 23 136 + 14	1.0 1.0 1.4 1.0		1906 1907 1908 1909	163 ± 16 235 ± 24 189 ± 19 295 ± 30	0.7 1.1 0.9 1.3
	1850 1851 1852 1854 1855	254 ∓ 25 308 ∓ 31 181 ∓ 18 268 ∓ 27 268 ∓ 27	1.5 2.2 1.0 1.5	24Ju159	1910 1911 1912 1913 1914	2 26 + 23 274 + 27 220 + 22 258 + 26 362 + 36	1.3 1.5 1.1 1.3
	1858 1859 1861	218 <del> </del>	4.8 0.8 1.4		1915 1916 1917	258 <del>+</del> 26 362 <del>+</del> 36 289 <del>+</del> 29 127 <del>+</del> 13 194 <del>+</del> 19	1.4 0.6 0.9
19Jul59	1866 1867 1868 1869 1870 1871 1872 1873 1874	88.5 + 9 160 7 16 225 7 23 125 7 13 145 7 15 226 7 23 212 7 21 86.7 7 9 293 7 29 240 7 24	0.8 1.2 1.4 0.9 1.2 1.8 1.2 0.6 1.9		1918 1919 1920 1921 1922 1923 1924 1925 1927	236 ± 24 211 ± 21 79.7 ± 8 36.5 ± 4 162 ± 16 172 ± 17 237 ± 24 242 ± 24 134 ± 13 234 ± 23	1.1 0.9 1.4 0.5 1.5 1.4 2.4 1.8 0.8 1.5
21Jul59	1881 1886 1890	243 ∓24 136 ∓ 14 65,2 + 7	1.5 0.8 1.3	26Ju159	19 <b>48</b> 1952 1956	237 + 24 259 <del> </del> 26 354 <del> </del> 35	1.2 1.3 1.9
	1891 1892 1893 1894 1895	86.5 ± 9 111 ± 11 108 ± 11 92.2 ± 9 115 ± 12 215 ± 22	1.3 1.5 1.6 1.3 1.4	28Jul59	1963 1966 1967 1969 1971	13.7 + 1 40.5 + 4 17.3 + 2 84.9 + 8 162 + 16 128 + 13	1.5 0.8 0.7 2.1 1.7

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr 89 Sr 90	Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰
28Jա59	1973 1975 1976 1977 1978 1979 1984 1984 1988	146 + 15 643 + 64 507 + 51 214 + 21 153 + 15 136 + 14 316 + 32 108 + 11 78.4 + 8 81.7 + 8	1.1 3.6 2.4 1.5 0.8 0.6 1.3 1.3 0.7 0.6	7Aug59	2030 2031 2033 2035 2037 2038 2039 2040 2042 2044 2045	104 + 10 142 + 14 182 + 18 367 + 37 105 + 11 131 + 13 177 + 18 142 + 14 168 + 17 95.6 + 10 99.0 + 10	0.6 0.8 1.0 2.6 0.7 0.7 1.1 0.9 1.0
30Jul59	1989 1992	107 ± 11 170 ± 17	1.6 1.1	0.4 50	2046	99.6 <u>∓</u> 10	1.4
31Ju159	1993 1994 1995 1996 1997	90.1 + 9 123 + 12 104 + 10 70.0 + 7 218 + 22	1.9 1.1 1.0 0.5 1.2	8Aug59	2056 2061 2062 2064 2066	34.4 ± 3 221 ± 22 258 ± 26 153 ± 15 330 ± 33	0.4 0.9 1.1 0.6 1.4
4 4 4 4 5 6	1998 1999 2000 2002 2003 2004 2005 2006	230 ∓ 23 62.1 ∓ 6 77.4 ∓ 8 53.6 ∓ 5 205 ∓ 21 319 ∓ 32 90.8 ∓ 9 207 ∓ 21	1.3 0.8 1.4 0.9 1.2 1.6 0.6 1.2	21Aug59	2067 2068 2070 2071 2072 2073 2075 2076 2077 2078	2.91 +0.3 29.0 +3 37.1 +4 17.6 +2 16.7 +2 26.3 +3 18.7 +2 69.7 +7 23.4 +7	0.1 1.5 1.1 0.6 0.4 0.9 0.6 1.9
4Aug59	2007 2008 2009 2010	112 + 11 115 ∓ 12 155 ∓ 16 208 ∓ 21	0.6 0.6 0.8 1.0		2320 2342	32.0 <del>1</del> 3 48.4 <del>1</del> 5 88.5 <del>1</del> 9	1.1 1.2 2.7
	2014 2015 2018 2019 2020 2023	141 ± 14 201 ∓ 20 184 ∓ 18 325 ∓ 33 222 ∓ 22 101 <u>∓</u> 10	0.7 1.1 0.7 1.2 0.8 0.4	15Sep59	2079 2080 2082 2083 2088 2089	46.6 + 5 48.4 + 5 21.0 + 2 52.2 + 5 37.5 + 4 262 + 7	0.4 0.2 0.4 0.2 2.1
6Aug59	2054	103 <u>+</u> 10	0.6		2090 2091 2092	56.9 <del>I</del> 6 127 <del>I</del> 13 143 <del>I</del> 14	0.4 0.8 0.8

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹	Sr ⁸⁹ Sr ⁹⁰	Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰
15Sep59	2093 2098	134 ± 13 65.9 ± 7 63.7 ± 6 92.2 ± 9	0.8 0.4	25Sep59	2167	39.5 <u>+</u> 4	0.2
	2099	00.7 T (	0.3	29Sep59	2195	83.4 + 8	0.5
	2102	03.7 7 0		2 306 D2 3	2196	95.5 <del>1</del> 10	0.6
		74.6 7	0.5		2199	65.5 <del>+</del> 7	
	210 <b>3</b> 2106	58.0 <del>〒</del> 6 89.6 <del>〒</del> 9	0.3 0.4		2177	_	0.8
			- • -	30Sep59	2176	45.7 <u>+</u> 5	0.2
16Sep59	2094	100 + 10	0.6		2177	91.9 <del>Ť</del> 9	1.3
1000po,	2095	100 ± 10 116 ± 12	0.7		2178	34.1 + 3	0.6
	2096	137 🛨 14	0.6		2179	30 1 <del>I</del> 3	0.4
	2097	87.7 7 9	0.5		2181	30.1 <del>+</del> 3 19.6 <del>+</del> 2	1,2
	2071	01.1 <u>T</u> 7	0.5		2183	74.4 7	0.4
1.05 am # 0	2113	235 + 24	1.3		2184	227 ∓ 23	1.1
18Sep59	2114	233 T 24	1.2		2192	314 ± 31	. •
		186 王 19			6176	214 1 21	1.4
	2116	$163 \pm 16$	1.0	10-450	2227	24.8 + 2	^ 3
	2118	98.6 王 10	0.6	1 Oct59	2228		0.3
	2120	58.4 7 6	0.3		2220	144 <u>∓</u> 14	1.9
	2121	116 🛨 12	0.9	20-450	2225	1 70 1 0 2	
	2122	55.0 ± 6	0.4	2Oct59	2205	$1.79 \pm 0.2$	0.2
	2123	55.0 ± 6 94.6 ± 9 66.8 ± 7 102 ± 10	0.6		2206	$1.79 \pm 0.2$	$\frac{>1.7}{}$
	2124	66.8 <u>+</u> 7	0.4		2207	$1.79 \pm 0.2$ $1.79 \pm 0.2$	≥ 3.1 ≥ 3.4
	2125	102 + 10	0.6		2208	1.79 +-0.2	≥ 3.4
	2126	83.7  8	0.4		2209	$1.79 \pm 0.2$	U.5
	2129	$114 \pm 11$	0.7		2210	$1.79 \pm 0.2$	0.3
	2130	57.2 <u>∓</u> 6	0,3		2211	59.0 王 6	1.2
	2131	114 ± 11 57.2 ± 6 69.2 ± 7 39.7 ± 4	0.8		2213	57.5 王 6	1.5
	213 <b>2</b>	39.7 <u>∓</u> 4	0.6				
	2134	50.9 <del>+</del> 5 22.6 <del>+</del> 2	0,8	6Oct59	2232	63.5 + 6 45.6 + 5	0.3
	2136	22,6 <del>I</del> 2	0.3		2235	45.6 <u>干</u> 5	0.2
	2137	187 <del>∓</del> 19	1.3		2239	78,8 <u>∓</u> 8	0.5
	2139	40.5 <del>T</del> 4	0.3		2240	90.1 <del>I</del> 9	0.5
	2140	94.5 Ŧ 9	0.6		2246	122 7 12	0.7
		-			2250	90 <b>.</b> 1 王 9	0.5
22Sep59	2152	91.1 + 9	0.9		2257	46.0 干5	0.2
•	2154	91.1 ± 9 22.7 ± 2	0.3		2252	39.0 <b>∓</b> 4	0.2
	2155	12.1 <del>I</del> 1	0.6		2253	80.1 Ŧ 8	0.3
	2157	18.8 7 2	0.7		2255	60.6 平 6	0.3
	2158	10.8 🕇 1	0.2		2256	29.7 7 3	0.1
	2159	10. 1 <u>‡</u> 1	0.2		2260	123 🛨 12	0.8
23Sep59	2161	10.4 + 1	0.6	8Oct59	2279	203 <u>+</u> 20	1.2
	2162	26, 1 <del>T</del> 3	1.3			_	-
	2164	47.1 ± 5	0.7				

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰
80ct59	2286	152 <u>+</u> 15	1,1	16Oct59	2321	90.1 <u>+</u> 9	0.8
90ct59	226 <u>4</u> 2268 2270 2271	15.7 ± 2 51.7 ± 5 65.5 ± 7 51.0 ± 5	0.5 0.4 0.3 0.9		2323 2324 2325 2326 2327	24.8 ∓ 2 59.3 ∓ 6 14.5 ∓ 1 128 ∓ 13 78.1 ∓ 8	0.2 0.3 0.1 0.6 0.4
13Oct59	2292 2293 2294 2295 2296 2297 2303 2304 2305	3.37 + 0.3 3.37 + 0.3 3.37 + 0.3 3.37 + 0.3 3.37 + 0.3 3.37 + 0.3 18.6 + 2 69.4 + 7	2.4 2.8 1.2 0.9 0.6 1.3 0.4 1.7		2329 2331 2334 2335 2337 2338 2339 2340	50.0 ±5 42.4 ∓4 109 ∓11 51.8 ∓5 146 ∓15 89.8 ∓9 82.1 ±8 170 ±17	0.3 0.3 0.8 0.3 1.1 0.6 0.6
	2306 2349 2350 2351 2357	34. 4 ± 3 45. 3 ± 5 4. 75 ± 0. 5 4. 75 ± 0. 5 4. 75 ± 0. 5 33. 9 ± 3	1.0 1.4 0.4 1.0 0.3 0.6	20Oct59	2380 2381 2382 2383 2385 2391	12.5 + 1 43.0 + 4 37.5 + 4 27.5 + 3 42.7 + 4 26.5 + 3	0.1 2.0 1.1 1.2 1.8 1.3
14Oct59	2307 2308 2310 2311 2312 2314 2315	4.20 + 0.4 3.54 + 0.4 6.14 + 0.6 11.1 + 1 21.3 + 2 13.7 + 1	0.9 0.3 0.3 0.6 0.6		2392 2396 2400 2403 2404 2411	32.6 ÷ 3 131 ÷ 13 82.6 ÷ 8 104 ÷ 10 109 ÷ 11 224 ÷ 22	0.2 1.8 1.3 0.6 0.5
	2316 2317 2344	14.5 <del>+</del> 1 16.7 <del>+</del> 2 15.3 <del>+</del> 2 15.6 <del>+</del> 2	0.8 0.5 0.6 0.5	22Oct59	2420 2421 2422 2423	2.54 ±0.3 2.54 ±0.3 2.54 ±0.3 2.54 ±0.3	≥ 6.5 2.1 ≥ 1.7 ≥ 5.7
15Oct59	2359 2362 2366	59.3 ± 6 61.0 ± 6 49.7 ± 5	0.4 0.3 0.3		2424 2425 2437	2.54 ± 0.3 2.54 ± 0.3 29.5 ± 3	0.6 0.4 0.1
	2367 2371 2373 2374	49. 7 ± 5 62. 1 ∓ 6 61. 7 ∓ 6 92. 2 ∓ 9 159 ∓ 16	0.3 0.3 0.4 0.6	27Oct59	2444 2448 2454 2461	110 + 11 88.5 ∓ 9 28.8 ∓ 3 48.1 <u>∓</u> 5	0.8 0.5 0.1 0.2
				2 8Oct59	2463 2465	86.8 ± 9 298 ± 30	0.6 2.0

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr89 Sr90	Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹
28Oct59	2467 2470 2471	131 ± 13 42.9 ± 4	0.8 0.2 0.2	6Nov59	2571 2572	$33.5 \pm 3$ $263 \pm 26$	0.1 1.1
	2472 2477	46.0 ± 5 106 ± 11 25.4 ± 3	0.6 0.1	1 0Nov59	2573 2575 2576	79.9 ± 8 73.7 ± 7 35.6 ± 4	0.5 0.5 0.3
30Oct59	2483 2489 2496 2500 2503	27.7 + 3 96.6 + 10 9.00 + 1 137 + 14	0.5 0.5 0.1 0.9 0.5		2580 2581 2588 2592	70.5 <del>+</del> 7 98.1 <del>+</del> 10 19.1 <del>+</del> 2 19.4 <u>+</u> 2	0.4 0.5 0.3 0.1
	2505 2505 2506 2507 2508	91.5 ± 1 75.0 ± 8 35.1 ± 4 10.1 ± 1 25.3 ± 3	0.4 0.4 0.1 0.3	11 <b>Nov</b> 59	2598 2599 2601 2602	$   \begin{array}{c}     27.5 \pm 3 \\     70.0 \pm 7 \\     38.0 \pm 4 \\     106 \pm 11   \end{array} $	0.2 0.5 0.3 0.6
3Nov59	2511 2514 2515 2516 2517 2518 2527	26.6 + 3 128 + 13 0.938 + 0.01 0.938 + 0.01 0.938 + 0.01 0.938 + 0.01 2.23 + 0.2	0.2 0.7 0.1 ≥ 0.6 0.3 0.3 0.1	12Nov59	2623 2635 2636 2637 2639 2640	21.1 + 2 29.4 + 3 39.0 + 4 31.8 + 3 144 + 14 17.5 + 2	1.3 0.6 0.4 0.5 1.0
6Nov59	2533 2536 2539 2541 2553 2555	47.7 + 5 4.99 + 0.5 47.1 + 5 39.7 + 7 72.7 + 7	0.4 0.04 0.2 0.2 0.4 0.2	13Nov59	2607 2608 2616 2617 2619 2622	16.1 + 2 10.5 \(\frac{1}{2}\) 1 1 4 0.8 \(\frac{1}{2}\) 4 1 9.3 \(\frac{1}{2}\) 2 13.3 \(\frac{1}{2}\) 1 4 3.9 \(\frac{1}{2}\) 4 2 2 3 3 4 3	0.6 0.4 0.3 0.3 0.3 0.6
	2556 2558 2560 2561 2563 2564 2565 2566 2567 2568	111 ± 11 53.8 ± 5 36.1 ± 4 14.8 ± 1 216 ± 22 91.6 ± 9 18.8 ± 2 44.8 ± 4 91.2 ± 9 54.3 ± 5	0.6 0.3 0.2 0.1 1.5 0.7 0.1 0.3 0.5	17Nov59 19Nov59	2642 2660 2661 2662 2672 2676 2677 2678	20.7 ± 2 66.1 ± 7 123 ± 12 134 ∓ 13 29.5 ∓ 3 129 ∓ 13 126 ∓ 13 452 ± 45	0.1 0.5 0.8 0.8 0.3 0.8
	2570	62.6 + 6	0.3	24Nov59	2688	58.7 <u>+</u> 6	6.8

Table 4.4 (continued)

Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	Sr ⁸⁹ Sr ⁹⁰	Date	Sample No.	dpm Sr ⁸⁹ 1000 SCF	5r ⁸⁹ 5r ⁹⁰
24Nov59	2689 2690 <b>2</b> 691	.19 + 12 276 <u>+</u> 28 381 <u>+</u> 38	5.9 3.7 6.2	16Dec59	2896 2897	58.9 ± 6 38.6 ± 4	0.4 0.4
	2692 2693 2694 2695 2696	310 ± 31 138 ± 14 99.7 ± 10 151 ± 15 44.7 ± 4	4.4 5.0 3.8 6.2	7Jan60	2985 299 <del>4</del> 3005 3010	$57.1 \pm 6$ $18.5 \pm 2$ $8.50 \pm 1$ $7.83 \pm 1$	0.7 0.3 0.1 0.1
25Nov59	2711 2712 2718	19.8 + 2 49.5 + 5 68.3 + 7	0.8 0.6 0.8	12Jan60	3014 3015 3016 3035 3036	37.0 ± 4 79.3 ± 8 51.0 ± 5 , 192 ± 19 73.9 ± 7 30.6 ± 3	0.3 0.5 0.3 1.3 0.7
1Dec59	2739 2745 2747 2748	44.9 + 4 15.5 + 2 4.57 + 0.5 24.5 + 2	0.3 0.2 0.1 0.5		3037 3042 3051	$30.6 \pm 3$ $17.7 \pm 2$ $38.2 \pm 4$	0,2 0,1 0,2
	2751 2752 2754 2755 2761 2763	28.8 ± 3 21.8 ± 2 31.5 ± 3 48.4 ± 5 40.5 ± 4 158 ± 16	0.3 0.2 0.2 0.3 0.2 0.8	15Jan60	3077 3082 3083 3086	4.83 ± 0.5 10.1 ±1 14.8 ± 1 5.57 ± 0.6	0.2 0.3 0.3 0.1
9Dec59	2821	8.74 <u>+</u> 1	0,5				
10Dec59	2838 2839 2843 2844 2848 2852	84.7 + 8 42.6 ∓ 4 30.6 ∓ 3 25.8 ∓ 3 174 ∓ 17 26.3 ∓ 3	0.7 0.3 0.2 0.1 0.9				
11Dec59	2855 2858 2865 2866 2870	13.9 + 1 107 + 11 63.9 + 6 21.8 + 2 48.4 + 5	0.1 0.7 0.4 0.1 0.2				
16Dec59	2887 2889 2891	23.5 ± 2 57.5 ± 6 22.2 ± 2	0.2 .0.4 0.1	•		·	

Table 4.4 (continued)

The following samples, collected after 23 Jun 1959, were analyzed for Zirconium-95, but the activities were below the limits of detection.

1839	1948	2066	2110
	1956	2067	2112
		2068	2 122
		2069	2 124
		•	2 138
			2 153
			2160
			2172
			2 1 7 5
			2177
			2237
	·	<del>-</del>	2239
			2248
			2 2 6 2
			2286
			2269
			2270
			2 2 9 9
			2 343
1/23	2002	01	2361
	1839 1841 1843 1845 1852 1854 1868 1876 1882 1885 1892 1897 1902 1907 1913 1916 1923 1926 1943	1841     1956       1843     1978       1845     1979       1852     1980       1854     1984       1868     1988       1876     1998       1882     2003       1885     2007       1892     2009       1897     2017       1902     2019       1907     2030       1913     2032       1916     2040       1923     2042       1926     2058	1841       1956       2067         1843       1978       2068         1845       1979       2069         1852       1980       2070         1854       1984       2071         1868       1988       2072         1876       1998       2073         1882       2003       2074         1885       2007       2075         1892       2009       2076         1897       2017       2077         1902       2019       2078         1907       2030       2082         1913       2032       2085         1916       2040       2092         1923       2042       2096         1926       2058       2097

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Table 4.5 Barium-140 Analyses

Date	Sample No.	dpm Ba 140 1000 SCF	Ba 140 Sr 89	Date	Sample No.	dpm Ba 140 1000 SCF	Ba ¹⁴⁰ Sr ⁸⁹
28Mar58	359 360 361 363	38500 ± 1800 84800 ± 2600 52700 ± 2800 5180 ± 1000	2.0 2.2 2.7 2.9	17Jun58	547 548 549	768 ± 62 2940 ± 82 3400 ± 68	0,2 0,5 0,8
•	364 365	$ 5180 \pm 1000 \\ 7160 \pm 170 \\ \leq 281 $	1.6 ≤0.4	20Jun58	550 551 552	321 ± 10 798 ± 16 966 ± 17	0 6 0.4 0.3
1Apr58	375 376 377 378 379	18400 + 420 ^440 + 670 10 + 390 19000 + 1200 27600 + 1200	4.6 6.6 3.1 2.9		553 555 556 557	786 ∓ 32 1300 ∓ 16 573 ∓ 30 368 ± 36	0.3 0.3 0.2 0.2
	380 382 383 384 385	33200 + 1400 25700 + 280 15400 + 850 50800 + 2100 39200 + 1500	2.7 2.6 4.0  2.8	24Jun58	558 559 560 561 562	1730 + 88 1540 + 180 1010 + 68 1040 + 80 1920 + 110	0.6 0.4 0.2 0.3 0.6
8Apr58	386 407	$11900 \pm 170$ $19600 + 350$	2.9 4.4		563 564 565	4560 ± 100 3870 ± 160 4500 ± 190	0.4 0.6 1.1
24May58	<b>408</b> 510 511	50100 <u>+</u> 2100 2220 <u>+</u> 220 2950 <del>+</del> 300	3.6 0.4 0.4	28Jun58	566 567 568	1590 + 210 903 <del>+</del> 61 938 <del>+</del> 27	0.6 0.2 0.3
10Jun58	513 534 535	5850 ± 590 58.0 ± 3.4 3220 ± 48	1.0 1.8 0.7		569 570 571 572	619 ±91 2320 ±35 3330 ±97 2550 ±100	0.2 0.4 0.4
1 <b>3J</b> un58	536 537 538	3840 <del>T</del> 88 588 <del>T</del> 22	0,8 0,3	1 Jul 58	573 574 575	3210 <u>∓</u> 110 57.1 + 6.2 87.0 <del>+</del> 8.2	0.6 0.8 0.9
1334136	539 540 541	434 + 10 970 <u>+</u> 32 1160 <u>+</u> 46 680 <u>+</u> 19	0.2 0.4 0.2		576 577 578 579	276 <del>+</del> 17 379 <del>+</del> 11 438 <del>+</del> 13 556 <del>+</del> 21	0.5 0.3 0.1 0.2
17Jun58	542 543 544 545	154 + 6 738 <del>+</del> 15 2250 + 36 1060 <del>+</del> 49	1.1 0.5 0.6 0.3	4 Jul 58	580 581 582	3580 <del>+</del> 100 2650 <del>+</del> 71 794 + 65	0.6 0.5
	546	690 ± 170	0.3	42 ft 20	585	416 ± 20	0, 1

Table 4.5 (continued)

Date	Sample No.	dpm Ba ¹⁴⁰ 1000 SCF	Ba ¹⁴⁰	Date	Sample No.	dpm Ba ¹⁴⁰ Ba ¹⁴⁰ 1000 SCF Sr ⁸⁹
<b>4</b> Jul58	586 587 588 589	950 ± 58 1760 ± 53 1780 ± 43 1740 ± 68	0.2 0.6 0.4 0.3	17Oct58	695 696 697 701 702	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
8Jul58	591 592 593 594 595	563 + 10 105000 ∓ 630 26600 ∓ 80 526 ∓ 27 705 ∓ 22	0.3 2.0 1.9 0.2	19Oct58	716 717 719	19100 + 250 0.9 13200 + 210 0.6 112000 + 790 4.1
	596 597	674 <del>+</del> 19 470 <del>+</del> 15	0.2 0.2	21Oct58	721	$\leq 27.6 \leq 0.04$
12Sep58	598 605	6830 + 680 3880 <del>+</del> 390	0.2 0.1	22 Oct58	726 73 <b>2</b>	5550 ± 170 0.9 167000 ± 670 3.3
16Sep58	613	4970 + 500	0.2	23Oct58	739	2680 <u>+43</u>
19Sep58	615 618	2460 ± 150 ≤50,2	0.2 ≤ 0.1	29Oct58	751 755 760	279000 ± 3350 2.3 30900 ± 860 1.7 22400 ± 650 2.4
23Sep58	623 632	<12.9 11000 <u>+</u> 250	≤ 0.73	5Nov58	765 768 770	$     \begin{array}{r}                                     $
30Sep58	633 640	< 54.3 < 55.8	< .01 ₹ .05		773	8350 180 0.6
3Oct58	642 645 652	5560 + 130 < 64.8 < 70.8	1.5 <0.2 <.01	7Nov58	777 783 784	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
	654	285000 ± 1140	<del></del>	15Nov58	791 792	$3080 \pm 110$ 0.2 2470 $\pm 110$ 0.3
7Oct58	668	141000 <u>+</u> 2250			798	56700 <u>∓</u> 450 1.7
10Oct58	67 <b>4</b> 67 <b>5</b>	161000 + 650 158000 <del>T</del> 790	1.9	16Nov58	802	1300 <u>+</u> 58 0.6
14Oct58	678 682 688 689 690	≤ 68.1 256 + 10 61600 ∓ 1050 68500 ∓ 960 77200 ∓ 1200	1.5	1 <b>6Nov</b> 58	806 808 816 818	49800 + 700 2.4 8950 + 200 0.8 <99.2 ≤65.1 ≤ 0.05

Table 4.5 (continued)

Date	Sample No.	dpm Ba ¹⁴⁰ 1000 SCF	Ba ¹⁴⁰ Sr ⁸⁹	Date	Sample No.	dpm Ba 140	Ba ¹⁴⁰ Sr 89
20Nov58	819	≤ 72.0	≤ 0.01	19Dec58	936 941	< 122 < 112 <	0.01 0.01 0.2
21Nov58	824 828	< 63, 6 <b>₹</b> 68, 5	< 0.02 < 0.1		946		
22Nov58	831 837	2950 + 170 6590 <u>+</u> 320	0.5	23Dec58	952 959 960	4180 + 270 < 22.9 < 65.0	0.4 0.1 0.1
25Nov58	841 843 8 <b>45</b> 851		< 0.2 0.3				
28Nov58	855 858 860	3660 ± 210 < 55.5 <u>&lt;</u> 45.9	< 0.07 < 0.05				
3 Dec 58	866 871 878 881	7150 + 240 < 64.2 < 12.1 < 19.0	1.0 < 0.02 < 0.05 < 0.03				
5Dec58	876 886	2238 + 120 < 84.7	0.6 ≤1.3				
9Dec58	887 888 911 917	< 42.8 < 48.5 < 50.7 < 57.8	< 0.03 < 0.03 < 0.1 < 0.1				
12Dec58	902 904 910	$\leq 104$ $3920 + 140$ $3100 \pm 150$	< 0.8  0.5				
16Dec58	919 927 928	< 70.2 < 74.6 3090 <u>+</u> 110	< 0.2 < 0.01 2.4				

## Table 4.5 (continued)

The following samples, collected during 1959, were analyzed for barium-140, but the activities were below the limits of detection.

969	1116	1266	1369
976	1121	1269	1372
977	1128	1270	13.74
978	1129	1276	1377
986	1135	1279	1384
989	1139	1287	1385
992	1142	1289	1390
995	1143	12 <b>94</b>	1394
1000	1152	1298	1398
1002	1 <b>1 5 3</b>	1305	1402
1005	1157	1306	1404
1007	1162	1310	1405
1013	1165	1311	1417
1020	1170	1317	1425
1022	1173	1321	1462
1023	1174	1328	1472
1026	1182	1329	1495
1031	1183	1330	1502
1034	1190	1338	1530
1035	1192	1339	1548
1042	1198	1342	1568
1044	1202	1348	1576
1052	1204	1349	1582
1053	1210	1 <b>354</b>	1594
1060	1214	1355	1654
1062	1215	1356	1699
1074	1219	1357	1752
1078	1225	1358	1763
1082	1230	1359	1868
1086	1232	1360	1897
1091	1237	1361	1980
1094	12 <b>39</b>	1362	1998
1097	1245	1363	2017
1100	1247	1364	2153
1102	1253	1365	2172
1110	1255	1366	2237
1111	1262	1367	2262
	<del>-</del> - <del>-</del>	<del></del>	

Table 4.6 Yttrium-91 Analyses

Date	Sample No.	dpm Y ⁹¹ 1000 SCF	Y ⁹¹ Sr ⁹⁰	Date	Sample No.	dpm Y ⁹¹	Y ⁹¹ 5r ⁹⁰
15Nov58	791 792	10300 ± 120 14200 ± 140	32,6 54,6	10Jul59	1803	206 <u>+</u> 10	1.6
23Dec58	960	983 <u>+</u> 27	27,3	14Ju159	1822	334 <u>+</u> 17	1.9
17Mar59	1244	2440 <u>+</u> 34	12.5	16Ju159	186 <b>4</b> 1865	195 + 9 201 <del>+</del> 19	1.9 1.4
27Mar59	1279	2330 <u>+</u> 49	9.9	21Jul59	1890	139 + 4	2,9
1 <b>Apr</b> 59	1305	3140 <u>+</u> 44	10.4		1893 1896 1899	351∓3 48.9∓0.8 330∓6	5.3 0.3
7Apr59	1323	145 <u>+</u> 9	4.4		1902 1905	402 <del>+</del> 11 347 <del>+</del> 6	2.8 2.0 1.6
14 <i>A</i> pr59	1358 1363	2670 + 13 $3560 + 36$	17.7 16.5		1906 1909	417 ± 10 470 ± 16	1.9
21Apr59	1382 1386 1388	1190 + 31 2100 <del>+</del> 120 2460 <del>+</del> 27	12.4 7.9 9.3	<b>24</b> Jul59	1910 1912 1913	364 + 11 384 + 7 380 + 14	2.1 1.9 1.8
16Jun59	1621 1624 1625 1630 1631 1633	54.3 + 0.8 470 + 14 617 + 15 72.5 + 1.2 665 + 23 966 + 39	0.3 2.8 3.2 0.3 2.8 3.9		1914 1915 1917 1919 1920 1922 1924	45.9 ∓ 0.8 358 ∓ 8 359 ∓ 7 56.3 ∓ 1 271 ∓ 7 249 ∓ 6 330 ∓ 7	0.2 1.8 1.7 0.2 4.7 2.3 3.4
19Jun59		980 <u>+</u> 15	3.4		1927 1929	359 <del>+</del> 3 203 <del>+</del> 3	2.1
21Jun59	168 <b>4</b> 16 <b>88</b>	605 ± 20 839 ± 30	2.8 3.1	28Ju159	1987	180 <u>+</u> 6	1.6
1 Ju159	1749 1751	229 + 3 486 干 15	1.7	31 Jul 59	2003	531 <u>+</u> 16	3.0
3Ju159	1757	1140 ± 17	2,7 3,8	4Aug59	2009 2019	390 ± 11 540 ± 14	2.0 2.0
,	1758 1765	840 <del>+</del> 18 944 <del>+</del> 13	2.6 3.6	7Aug59	2040 2042	309 + 6 411 <u>+</u> 5	2.0 2.5
7Ju159	1768 1786 1788	415 ± 9 332 ± 9 181 ± 7	2.4 2.4 1.6	21 Aug59	2071 2 074	68.1 + 1 $98.6 + 2$	2,2 2,2

Table 4.6' (continued)

Date	Sample No.	dpm Y ⁹¹	Y91 Sr90	Date	Sample No.	dpm Y ⁹¹ 1000 SCF	Y ⁹¹ Sr ⁹⁰
15Sep59	2079 2081 2083 2086 2089 2091 2093 2098 2100 2102 2105 2107	159 ± 5 166 ± 4 161 ± 4 207 ± 6 212 ± 12 177 ± 5 233 ± 7 84.1 ± 3.6 183 ± 5 190 ± 7 219 ± 8	1.4 1.3 1.1 1.2 1.3 1.0 1.2 0.4 1.0	14Oct59	2308 2313 2314 2315 2318 2343 2344	15.8 ± 0.7 37.3 ± 1.1 22.5 ± 0.9 32.6 ± 1.0 32.3 ± 0.5 23.1 ± 0.4 51.3 ± 0.5	1.2 1.3 0.9 1.9 1.1 1.0
18Sep59	2121 2123 2125 2128 2130 2133 2134 2136 2137 2140	129 + 3 214 + 3 198 + 10 201 + 5 199 + 4 166 + 4 74.5 + 5 90.1 + 2.4 185 + 1 206 + 12	1.0 1.3 1.1 1.0 1.2 2.4 1.2 1.3				
22Sep59	2151 2152 2154 2155 2156 2158 2159 2160	108 ± 3 123 ± 2 95,3 ± 2,3 27,5 ± 1,8 27,7 ± 1,5 53,0 ± 3,6 49,2 ± 1,2 111 ± 2	1.0 1.2 1.1 1.3 1.2 1.0				
3'0Sep59	2173 2179 2182 2184 2186 2188 2189 2191	264 + 7 43.5 + 2.4 3.48 + 2.3 139 + 4 167 + 6 174 + 6 115 + 7 92.2 + 5.3	1.7 0.6 0.7 0.7 0.8 0.7 0.5				

Table 4.7 Cerium-144 Analyses

Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰	Date	Sample No.	dpm 1000 SCir	Ce ¹⁴⁴ Sr90
6Mar58	283	2120 <u>+</u> 320	15.4	6May58	<b>4</b> 76	5170 + 150	15.8
	284	2190 〒 260	17.8	00.22700	477	9250 <del>T</del> 190	15,6
	285	1910 <del>T</del> 250	15.0		478	2880 <del>T</del> 110	37.9
	286	$1780 \mp 280$	15.4		479	4620 <del>+</del> 160	22.9
	287	780 7 370	4.7		480	3520 T 100	35.8
	288	2440 <del>T</del> 440	15.7			3520 <u> </u>	54, 9
	289	1980 Ŧ 500	14.2		481	1090 王 50	25,8
	290	4210 <del>+</del> 1100	28,0		482	580 <u>∓</u> 50	31.8
	-,,	4010 T 1100	20,0	07.150			
18Mar58	299	9300 + 600	24 0	8Ju158	590	660 <u>+</u> 37	21.0
	-//	7300 <u>+</u> 600	24.8		591	450 <del>T</del> 44	21.1
25Mar58	327	E430 + 300	2/ 7		592	12700 Ŧ 370	25.3
	328	5630 ± 300	26.7		5 9 3	<b>4580</b> ∓ 170	26.8
		12800 7 920	31.6		59 <b>4</b>	3950 Ŧ 170	26.6
	329	28300 王 990	32.7			_	•
	330	7660 <b>¥ 2</b> 70	26.9	23Sep58	623	116 <u>+</u> 4	12.0
	347	2450 <del>T</del> 690	12.7			•	
	348	2650 <del>T</del> 1300	14.8	30Sep58	633	2300 + 21	19.0
	349	3870 <del>T</del> 1400	20.3	_	640	1010 7 71	12.9
	350	$3730 \mp 260$	17.3			<u>-</u> ·-	,
	351	2240 <u>∓</u> 110	15.7	3 Oct 58	642	1430 + 69	14.6
	352	2800 <u>∓</u> 380	13.8		643	500 <del> </del> 3	7.9
	353	2560 <del>T</del> 430	12.8		645	632  9	
	354	<b>3</b> 010 ∓ 170	13.9		646	751 <del>‡</del> 7	9.2 11.2
	355	<b>5270 ∓ 550</b>	23.0		647	1300 7 80	17.0
	356	1 <b>4</b> 300 ∓ 600	35.9		648	896 <del>+ 4</del> 7	17.0
	357	25400 <del>T</del> 1000	36.3		654	40700 <del>+ 46</del> 0	10.3
	358	7460 <del>T</del> 980	23, 2		034	40100 T 400	31.4
		-	- •	7Oct58	658	2620 + 52	12 1
4Apr58	391	6140 + 530	26.6	, 0000	661	887 7 9	13.1
	392	6570 <del>T</del> 470	26.6		667	47400 <del>+</del> 1600	13.9
	393	<b>3970 ∓ 370</b>	19.2		668	29500 T 1000	25.9
	394	1010 🛨 110	23,5		000	<b>28500</b> <u>∓</u> 1000	28.5
	396	4120 7 440	18.8	10Oct58	674	27000   040	
	397	1810 <del> </del> 810	23.4	1000138		27900 + 840	20.7
	403	3630 ¥ 510	29.1		675	$32700 \mp 2000$	30.6
	404	13700 <del>T</del> 850	29.9	14Oct58		1000	
	405	3590 <del>+ 54</del> 0	17.8	1400138	682	1290 + 90	12.5
		05/0 1 5/20	11,0		689	15900 <del>T</del> 400	17.7
8Apr58	410	9800 <u>+</u> 390	12 2		690	23000 <u>∓</u> 550	18.1
	~~~	7000 <u>T</u> 370	12.7	150.00		_	
6May58	475	6510 + 150	22 -	17Oct58	695	1860 <u>+</u> 60	3.9
2,		22 YO T 130	23,7		696	4150 T 83	3, 8
						-	· -

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰	Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰
17Oct58	697	4440 <u>+</u> 93	3.9	5Dec58	88 4 885	639 + 36 317 + 8	11.1 12.9
19Oct58	708	317 + 4	23.3		886	614 + 72	7.1
	70 9	568 ∓ 4 0	13.2				
	710	641 T 29	7,8	12Dec58	895	1170 + 25	17.4
	711	1770 T 92	22.9		898	1030 <u>∓</u> 14	17.6
	712	510 I 32	7.7			_	
	713	543 ¥ 29	6.9	16Dec58	927	6730 ± 195	24. 1
	71 4 715	3340 T 140	25.8		928	1120 7 60	27.2
	115	4 760 <u>∓</u> 140	25.0		929	420 王 5 4	25.9
22Oct58	727	2360 + 94	19.0		930	434 王 7	46.5
	728	691 T 52	15.0	19Dec58	948	1290 + 96	26.0
	732	16600 + 570	16.1	1910000	949	940 + 17	19.3
		<u> </u>	10.1	•	7-7	750 711	17.3
29Oct58	7 4 6	2170 + 13	17.9	6Jan59	977	4450 + 13	21.1
	751	2170 + 13 $20300 + 670$	11, 1		•		
	755	9160 <u>干</u> 350	38.7	22Jan59	1027	279 + 10	23.0
	760	585 0 <u>∓</u> 25 0	24.4		1034	1160 <u>∓</u> 58	26.8
3Nov58	76 4	1700 + 65	13.6	25 Jan 59	1035	2200 + 12	12 2
02.0700	768	963 + 10	16.2	45041157	1035	3380 <u>+</u> 17	12.7
		700 1 10	10.5	3Feb59	1060	441 +13	17.1
15Nov58	791	6510 + 230	20.7	02.000,	1000	411 [110	****
	792	5920 T 77	22.8	14Feb59	1099	786 + 18	14.1
	796	860 <u>Ŧ</u> 73	10.9	•	1100	786 <u>+</u> 18 958 + 12	15.6
	798	15600 <u>∓</u> 310	23.5		1101	971 + 12	11.9
			_		1102	871 Ŧ 59	9.6
18Nov58	806	8380 <u>+</u> 250	18.0		1103	847 T 14	17.5
	808	11200 + 160	42.8		1104	641 T 86	11.8
	810	1260 7 59	25.0		1105	903 T 13	14.4
	811 818	1210 平 66	26.5		1106	901 T 26	18.5
	010	2790 <u>∓</u> 25	28,2		1110	2880 <u>∓</u> 20	14.5
21Nov58	824	2980 <u>+</u> 12	28.8	6Mar59	1190	3850 + 27	16.3
	828	3630 I 33	50.0			-	-
2531 54				13Mar59		760 <u>+</u> 22	11.8
25Nov58	851	2700 <u>+</u> 19	9.4		1225	1090 <u>∓</u> 13	14.2
3Dec58	878	292 + 16	11.4		1226	550 <u>∓</u> 7	9.9
	881	554 + 25	9.2	17Mar59	1239	206 + 2	18.4
			/• -	11442237	1241	150 7 3	19.4
					1242	41.8 71.3	14.4
							A-B A

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ S ₁ .90	Date	Sample No.	dpm 1000 SCF	$\frac{\mathrm{Ce}^{144}}{\mathrm{Sr}^{90}}$
20Mar59	1 253 1 255	2850 <u>+</u> 88 2270 + 68	14.3 11.1	21Apr59	1382 1384	1080 ± 18 1370 ± 310	11.2 14.4
	1258	2410 7 14	17.2		1385	1270 + 50	11.7
	1259	317 🛨 8	6.0		1386	2920 T 130	11.0
	1260	796 🛨 10	16.3		1388	2990 + 140	11.3
	1 26 1	1040 平 62	10.9		1389	2510 <u>∓</u> 110	11.4
	1262	3540 干 28	18.6				
	1264	196 <u>∓</u> 4	39.8	22Apr59	1663 1664	2460 ± 5 2360 ± 7	12.5 9.2
24Mar59	1269	1540 + 12	25.3			ma4	
	1270	1320 I 380	12.2	24Apr59	1393	536 <u>+</u> 9	8.3
	1287	312 I 6	12.8	25 4	1445	761 + 2	14.4
	1289	578 + 9	12.6	25Apr59	1665 1666	2210 + 18	14.4 10.1
	1290	482 🛨 7	9. 9		1000	2210 + 18	10.1
27Mar59	1278	3880 ± 140	13.4	26Apr59	1400	3040 <u>+</u> 18	9.9
	1282 129 4	2250 1 14 924 1 27	14.3 12.6	28Apr59	1410	609 + 7	11.5
	1474	764 7 61	12.0	20Apr 37	1667	1940 + 6	13.3
1 Apr 59	1303	2820 + 25	13.9	29Apr59	1668	2350 + 7	13.1
p. 5 /	1305	4200 7 29	13.9	1 May 59	1421	250 ‡ 9	13.6
	1306	5920 ¥ 220	14,5				22.0
		, -	•	5May59	1422	760 + 19	10.4
3Apr59	1311	1430 <u>+</u> 17	21.6	-	1425	2190 <u>∓</u> 24	14.3
_	1314	631 <u>∓</u> 6	14.3		1427	2000 <u>∓</u> 26	13.0
					1430	3480 I 52	11.7
14Apr59	1354	2780 <u>+ 42</u>	20.7	014 40	1.420	504	
	1355	2490 + 92	19.4	8May59	1439	704 <u>+</u> 17	10.6
	1356	2200 T 86	13.4	1234050	1446	646 1 17	100
	1357 1358	2960 + 80 2130 + 81	17.1 14.1	12May59	1447	646 ± 17 610 ± 14	10.0 10.6
	1359	6570 T 92	21.3		1448	537 T 10	10.6
	1360	4500 + 140	11.8		1 449	695 + 15	10.9
	1361	4570 + 41	16.0		,	0,0 1 10	10. /
	1362	3870 7 81	18.1	15May59	1457	223 +4	10.2
	1363	3850 T 85	17.9		1459	362 + 12	9.0
	1364	4230 干 76	18, 1		•	~	
	1365	1860 I 60	14.4	20May59	1473	1630 <u>+</u> 150	15.0
	1366	2560 <u>∓</u> 64	18.7		1474	2160 ± 13	28.1
	1367	4930 王 89	17.7		1476	1750 T 18	13.6
		_			1479	1850 🛨 9	13.8
					1480	331 I 6	4.7
					1483	800 <u>∓</u> 11	6.4

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90	Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰
24 May 59	1499	2690 <u>+</u> 27	10.0	3Ju159	1757	2970 + 21	10.0
26May59	1505	420 ± 13	9, 6		1760 1761	3410 T 24 2220 T 16	14.8
B021-4y57	1511	420 + 13 328 + 5	14.2		1763	2970 + 21	11.7 11.8
	1515	408 🛨 11	7.5		1764	3740 ± 26	14.8
29May59		197 <u>+</u> 5	8, 6	7Jul59	1786 1793	1270 + 10 514 + 11	9.4 7.7
2Jun59	1524	2070 ± 29	11.6				
	1526	3050 王 30	13.3	10Ju159	1800	283 <u>+</u> 4	10.2
	1527	3 480 7 28	11.3			_	-
	1532	3040 <u>∓</u> 24	11.1	14Ju159	1839	3730 + 78	10.5
	1533	$ 3510 \mp 32 \\ 641 \mp 12 $	10.6		1841	3130 T 22	1 1, 1
	1 537	641 <u>干</u> 12	10.1			-	-
	1 541	562 王 4	9.8	16Ju159	186 4 1865	1170 ± 23 1160 ∓ 22	11.3 8.4
5Jun59	1543	545 + 11	8,6				-,-
		-		21 Jul59	1892	975 + 6	12.8
14Jun59	1601	1830 <u>+</u> 15	12.4		1895 1897	924 7 62 1030 75	11.4 6.4
16Jun59	1618	1560 <u>+</u> 11	14.4		1902	2160 T 13	11.0
- · ·	1621	1740 + 17	9.1		1930	832 T 7	17.3
	1628	1740 ± 17 2120 ± 17	10.1		1932	549 Ŧ 3	8.7
	1630	2470 ∓ 20 2320 ∓ 21 1800 ∓ 13 1730 ∓ 24	10.2		1935	84.1 T 15	7.0
	1631	2320 ¥ 21	9.7		1937	293 Ŧ 5	8.9
	1655	1800 T 13	11.1	24Jul59	1911	1640 T 11	9.3
	1656	1730 干 24	10.0		1913	1970 7 20	9,6
	1657	1510 王 27	11.5		1916	2160 7 13	9,5
	1 658	1040 王 8	8,5		1919	2290 + 14	9.6
		_	•		1923	1470 T 10	12.2
19Jun59	1651	786 + 9	8.3		1925	1170 78	8,6
	1652	1530 干 14	8.4		1926	2100 T 15	12.3
	1 653	2750 ¥ 17	9.4				
	1654	31 00 <u>∓</u> 16	8.4	28Ju159	1969 1 97 0	577 + 7 668 + 14	14.3 11.9
23Jun59	1702	3200 <u>+</u> 45	9.3		1971	1080 T 14	11.3
26Jun59	1714	1 89 0 <u>+</u> 15	12.0		1972	1360 7 23	10.2
203 un 3 7	1112	1070 7 15	12.0		1977	1750 T 14	11.9
2Ju159	1754	773 + 13	12.5		1978	1040 ∓ 11 3210 ∓ 29	5.1
200137	1756	2350 7 26	28.7		1979 1980	3210 T 1/	14.3
	1150	2220 7 40	40,1		1981	2710 ¥ 16	10.8
					1982	116 王 3	9.5
					1982	379 ∓ 5 473 ∓ 13	7.6
					1984	901 ± 12	7.3
					1 70 4	701 <u>T</u> 12	1 1.0

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90	Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰
28Ju159	1985 1986	40.6 + 2.2 814 + 20	9,5 7.0	22Sep59	2157	263 <u>+</u> 5	9.7
	1987 1988	1250 + 15 1230 + 18	11.1 9.3	30Sep59	2181	173 <u>+</u> 7	11.0
				14Oct59	2308	130 ± 3	9.6
30Ju159	1991	833 ± 14	8. 7		2310	166 Ŧ 2	8.1
	1 992	1410 ± 18	9.3		2312	366 I 2	9.6
31Ju159	1996	1430 + 13	10.3		2313 2314	222 ∓ 2 224 ∓ 2	7.8 8.9
210009	1998	2110 + 11	12.2		2316	300 T 3	9.5
	1 770	2110 111	14.4		2318	287 I 3	9.4
4Aug59	2047	154 + 3	8.0				,, -
• .	2 050	284 🛨 5	9.4	16Oct59	2327	1740 <u>+</u> 50	9.3
8Aug59	2055	881 + 13	9.9	20 Oct 59	2392	938 + 13	8,5
	2 056	841 7 11	9.5		2393	1360 干 7	8.4
	2057	922 T 13	7.4		2394	1680 T 12	7.0
	2058	955 干 12	8.7		2395	1990 T 14	8.1
	2059	1 380 ∓ 22	8.7		2401	382 干 5 931 干 11	7.4
	2060	2020 <u>干</u> 4 8	10.0		2402	931 <u>∓</u> 11	6. 4
	2063	2670 <u>干</u> 29	9.1		2404	1580 王 17	7.9
	2065	2530 <u>∓</u> 30	10.1		2407	1440 ± 13	6.3
					2 4 09	1530 I 12	9.0
		222 . 4			2411	1450 ¥ 22	10.2
21 Aug59	2067	222 + 3	10.4		2412	1510 I 14	7.8
	2069 2071	273 T 4	15.4 11.1		2414	2650 王 77 3740 王 10	8.0
	2071	339 <u>∓</u> 4 481 + 5	12.5		2415	2760 <u>∓</u> 19	10.1
	2072	336 + 4	12.0	30Oct59	2494	1510 <u>+</u> 24	7.0
	2074	525 I 4	11.8	3000139	6777	1310 - 24	1,0
	2076	350 T 4	9.7	6Nov59	2539	1500 + 55	7.9
	2078	320 + 4	11.3	01.0157	4557	.500 7.00	,
				11Nov59	2601	1120 <u>+</u> 9	7.8
15Sep59	2082	1220 + 12	9.7	•			_
-	2084	1500 王 15	11,1	13Nov59		284 ± 5	9.9
	2 085	1370 T 12	7.3		2609	253 🕇 4	8.2
	2 091	2480 T 82	14.6		2611	32.1 ∓ 1.7	8.4
	2092	1870 王 19	10.1		2612	93.4 <u>∓</u> 2.5	8, 2
18Sep59	2124	1550 <u>+</u> 73	9.4	19Nov59	2658	1340 ± 110	8.0

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90	Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰
25Nov59	2712 2714 2715 2718	286 ± 3 656 ∓ 6 1190 ∓ 8 689 ∓ 6	3.5 7.9 6.5 8.1	8Dec59	2816 2817 2819	758 + 5 1130 ∓ 7 779 <u>∓</u> 6	7.5 9.2 8.2
		-		11Dec59	2855	1020 <u>+</u> 27	6 .8
1 Dec59	2720 2722 2724 2725 2727 2730 2732	1070 + 6 1170 + 6 1370 + 4 71.8 + 3.6 1250 + 11 1430 + 13 1472 + 15 1803 + 13	7.9 8:1 7.9 0.4 6.6 8.2	15Dec59	2873 2876 2877 2882 2884 2886	982 + 7 988 + 7 393 + 6 593 + 5 1360 + 9 1620 + 13	6.8 8.1 7.9 14.5 7.0 7.7
	2734 2735 2738 2755	1560 ± 17 1560 ± 17 1830 ± 20 1010 ± 10	7.9 8.1 8.1 6.9	17Dec59	2904 2907 2909 2910	786 + 8 856 + 8 1290 + 13 1730 + 14	6.2 7.6 7.0 9.5
3 Dec 5 9	2767 2770 2771	1130 ± 6 978 ± 9 367 ± 3 662 ± 4	7.9 8.4 6.1 8.0		2913 2914 2919	2420 <u>∓</u> 19 1310 + 12	10, 5 8, 5 8, 2
	2774 2776 2778 2780	912 ∓ 6 1010 ∓ 5 1240 ∓ 7 1590 <u>∓</u> 8	8.5 7.0 8.8 9.1	18Dec59	2924 2926 2927	277 7 2	8.2 7.8 3.4
	2 781 2783 2791 2794 2796 2798	1770 ± 16 1760 ± 16 754 ± 7 828 ± 12 991 ± 8 1100 ± 12	10.2 8.1 7.4 7.2 6.2 6.6	22Dec59	2942 2944 2946 2947 2 950	$ \begin{array}{c} 1170 + 15 \\ 1170 + 14 \\ 1100 + 10 \\ 1210 + 13 \\ 1670 + 17 \end{array} $	7.6 7.5 7.5 7.1 8.4
8Dec59	2803	2010 <u>∓</u> 24 908 + 5	8.4 8.0 7.6	23Dec59	2951 2954 2956 2959	1400 + 14 1770 + 16 1970 + 16 2000 + 16	8.3 7.9 8.0 8.7
	2804 2805 2806 2807 2812 2814	1230 ± 6 1470 ± 7 1600 ± 85 285 ± 4 195 ± 4 176 ± 4 635 ± 6	3.9 8.4 8.5 7.9 8.2 7.0	5Jan <u>6</u> 0	2960 2962 2964 2967 2969	545 + 7 1080 + 9 1090 + 9 1910 + 11 1180 + 13	7.5 8.6 6.9 8.8 6.7

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ge 144 Sr 90	Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90
5Jan60	2974 2975	485 ± 4 1710 ± 14	7.6 7.9	22Jan60	3)27 3128 3130	879 + 4 1820 + 15 1950 + 12	6.5 7.4 7.5
12Jan60	3042	1180 <u>+</u> 31	7.6		3132 3134	1840 ± 13 2290 ∓ 14	9. 7
1 4 Jan60	3061 3062 3 065 3067	353 <u>+</u> 3 842 + 8 730 + 8 770 + 6	6, 6 6, 2 5, 3 6, 7		3136 3138 3141	2260 干 14 2150 干 19	9.3 8.3 8.5 10.9
157- 76	3 069 3 071	1280 I 6 1410 I 7	8, 1 7, 2	26Jan 60	3159 3161	1340 ∓ 12 1520 ∓ 9	7.5 7.9 7.7
1 5Jan60 1 9Jan60	3091 3092	2820 <u>+</u> 48 955 + 9	14.9 7.6		3162 3164 3172	2160 + 22 1780 + 16 1030 + 3	8,0 8,1 6,9
	3094 3096 3099 3101 3103	902 ∓ 8 390 ∓ 4 387 ∓ 5 246 ∓ 4 344 ∓ 4	6.9 6.5 7.2 7.4 6.4	28Jan60	3176 3178 3179	2410 + 12 2330 + 12 1520 + 8	12.6 11.7 9.1
	3 105 3107 3109 3113 3 115 3117 3 118	285 + 3 565 + 1 7 326 + 1 4 382 + 1 6 672 + 1 7 655 + 7 1150 + 9	6.8 7.1 7.2 7.0 7.3 5.8 6.6	29Jan60	3182 3187 3191 3193 3195 3196	344 + 3 210 + 2 245 + 2 195 + 2 292 + 3 369 + 3 686 + 8	6.4 7.7 6.7 6.9 6.4 7.0 6.4
21 Ja n60	3120 3142 3143 3145 3148 3149 3151 3152 3154 3155	450 ± 7 1450 + 25 1320 + 43 3420 + 17 4000 + 28 3790 + 26 1660 + 13 1140 + 14 762 + 12 821 + 10	7.2 6.8 6.4 13.2 14.2 13.6 7.6 7.3 7.0 6.4	2 Fe b 60	3198 3200 3202 3206 3209 3213 3214 3217 3219	456 ± 6 948 ± 12 1140 ± 14 1840 ± 20 1830 ± 11 997 ± 11 1040 ± 77 1060 ± 14 1350 ± 19	5.9 5.7 7.0 7.2 7.0 6.7 6.3 6.2 7.0
22Jan60	3123 3125	876 ± 6 627 ± 7	6. 6 6. 3	3Feb60	3221 3222 3223	282 + 2 351 2 623 4	6.7 6.0 6.9

Table 4.7 (continued)

Date Sample dpm Ce 144 Date Sample No. 1000 SCF Sr 90 No.	dpm	Ce 144 Sr 90
3Feb60 3225 397 + 2 7.2 12Feb60 3263	307 ± 2	E 4
3226 587 T 4 6.1 3264	307 + 2 416 + 3	5.4
3227 283 7 7 7 0 3265	1010 7 6	7.1 7.0
3228 587 + 8 5.8 3267	1100 7 5	6.0
3229 1440 + 14 8.3 3268	1770 7	7.6
3230 228 + 3 2 5 3240	1200 + 8	6.9
3231 604 ± 8 16.0 3270	479 + 5	6.9
	374 74	5.4
3233 1180 + 8 8.3 3272	318 ∓ 3	2.9
3 234 1220 + 53 7.4 3273	4 73 ∓4	5.5
$3\ 235 \qquad 1190\ \pm\ 11 \qquad 7.4 \qquad \qquad 3274$	549 干4	5.9
4Feb60 3236 463 + 5 6.7 3276	1150 〒6	6.3
3270	1660 王 5	7.4
AA 4	17 4 0 <u>∓</u> 9	7.0
3470	2240 王 9	8.7
20.4/	596 + 7	5. 6
	770 王 10	5.9
3301	184 + 1	6.2
6Feb60 3252 417 ± 2 6.0 3307	695 ± 8	6.0
	519 T 4	5.4
3 253 717 ± 4 6.1 3309 3 254 842 ± 5 6.6 3310	736 千 7 1110 千 11	6.4
$3255 1800 \pm 9 10.4 3311$	1070 ∓ 12	5.7
325 6 49 0 ∓ 3 7.0 3312	772 7 6	5.5 8.8
3257 975 + 5 6 2 3314	807 7 6	7.4
3258 1170 + 5 6.4 3316	667 75	6.5
3 2 5 9 2 5 3 0 + 8 13 0 3 3 1 8	653 ∓ 5	5.6
3260 2290 ± 5 10.8 3320	765 + 7	6,5
$3261 2330 \pm 7 11.6 3323$	2820 ¥ 20	14.1
3325	1530 Ŧ 9	6.2
11Febbu 3279 1160 ± 12 7.3 3328	2320 T 12	9. 4
3281 2120 + 30 10.0 3329	2880 干 17	11.6
3282 2030 ∓ 34 9.6 3330	2130 ∓ 13	9.2
3283 2560 T 23 12.2 3331 3285 1750 T 21 7.4	2160 I 13	10.0
	_	
Annu	903 +7	6.3
	877 T 7	6.7
	715 王 6	6.2
S S S S S S S S S S S S S S S S S S S	639 干 5	6.2
3295 $1490 + 13$ 7.7 3340 3296 $1630 + 16$ 7.4	624 <u>∓</u> 4	6.3

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90	Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰
19Feb	3346 3348 3 350 3 352	201 + 1 597 + 8 585 + 8 665 + 6	5.7 6.5 5.6 4.6	3Mar60	3412 3414 3415 3417	1270 + 8 1170 ∓ 6 1070 ∓ 5 894 ∓ 4	7.1 7.8 7.5 6.2
23Feb60	3355 3356 3357 3358 3359 3360 3361 3362 3363 3364 3365 3366	552 + 3 759 + 4 3320 + 66 430 + 4 666 + 4 883 + 3 1580 + 6 540 + 4 761 + 4 956 + 8 2420 + 29	6.9 7.7 10.3 6.2 7.6 7.5 7.8 9.3 6.9 7.4 9.0 9.7	4Mar60	3418 3419 3420 3421 3422 3426 3429 3431 3432 3433 3 434	1170 + 7 1380 + 8 1520 + 14 1900 + 13 1550 + 8 678 + 12 614 + 9 606 + 7 736 + 11 784 + 12 950 + 8	6.3 7.4 7.1 8.3 7.9 4.6 5.7 5.7 5.1 6.5
25Fe b60	3367 3368 3369 3371 3372 3373 3376 3377 3378 3381 3381 3382 3385	2270 ± 9 916 ± 5 1880 ± 9 900 ± 5 904 ± 8 981 ± 9 519 ± 5 575 ± 7 1620 ± 15 847 ± 9 1780 ± 14	10.5 6.9 10.1 6.9 6.0 5.9 5.5 6.4 7.3 10.9 7.7	10Mar60	3435 3436 3442 3443 3444 3446 3447 3448 3449 3450 3451 3452	344 ± 3 198 ± 2 217 ∓ 2 360 ∓ 3 380 ∓ 3 226 ∓ 2 404 ∓ 3 685 ∓ 3 493 ∓ 3 663 ∓ 4 893 ∓ 5 794 ∓ 5	5.3 5.4 5.2 5.2 5.0 5.6 6.5
l Mar60	3 387 3388 3391 3 400 3401 3402 3404 3406 3408 3411	2190 ÷ 11 2490 ÷ 20 1690 ÷ 15 1110 ÷ 8 1380 ÷ 12 781 ÷ 5 948 ÷ 9 540 ÷ 12 832 ÷ 6 426 ÷ 4	9.5 9.2 7.1 7.8 6.1 6.6 4.9 6.3 5.5	11Mar60 22Mar60 24Mar60	3455 3456 3457 3458 3459 3460 3479 3480 3468	470 + 3 478 + 3 516 + 4 1360 + 7 929 + 6 1010 + 6 319 + 5 238 + 4 2030 + 6	6.3 5.7 6.0 8.5 6.9 7.9 5.1 3.9

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90	Date	Sample No.	dpm . 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰
24Mar60	3469 3471 3472 3483 3484 3486 3487 3488 3489 3490	1820 + 13 1810 + 15 2150 + 15 1050 + 9 1620 + 18 1730 + 43 1530 + 12 2260 + 14 1700 + 17 1800 + 16 1880 + 15	8.1 8.8 8.5 6.9 9.0 9.0 6.9 9.1 8.0 7.3	5.Apr60	3535 3537 3540 3542 3543 3549 3552 3553 3556 3558	2110 + 6 1790 ∓ 5 1710 ∓ 12 1740 + 16 253 ∓ 3 410 ∓ 8 819 ∓ 10 625 ∓ 8 474 ∓ 9 487 ∓ 6	8.2 8.0 8.5 9.0 7.1 5.2 8.6 6.2 5.6
	3 49'1 3492 3 493 3 494 3495 3496 3497	1880 + 15 1940 ∓ 19 439 ∓ 3 1230 ∓ 14 751 ∓ 13 1340 ∓ 12 537 ∓ 11	7.8 9.4 6.8 5.1 5.3 7.1 4.9	7 A pr60	3559 3562 3563 3571 3572 3575	716 ± 10 1140 ± 16 358 ± 4 575 ± 7 529 ± 10 399 ± 8 403 ∓ 7	6.4 7.0 6.2 5.6 5.9 4.7
29Mar 60	3498 3501 3504 3505 3506 3507 3509 3510 3511 3512 3513 3517 3518	294 + 1 426 + 1 629 + 4 770 + 6 898 + 8 1200 + 10 1010 + 4 1130 + 7 1720 + 14 1470 + 16 1140 + 11 1130 + 8 322 + 8 99. 2 + 1.5	6.2 6.9 7.2 6.8 8.5 7.8 7.9 7.3 6.2 16.2		3577 3578 3579 3580 3581 3584 3584 3585 3590 3591 3592 3593 3594	403 ∓ 7 493 ∓ 8 553 ∓ 9 799 ∓ 11 1130 ∓ 8 1090 ∓ 8 405 ∓ 9 333 ∓ 2 288 ∓ 2 1490 ∓ 6 1290 ∓ 8 1380 ∓ 8 1550 ∓ 9	4.3 4.9 7.0 8.9 7.1 8.1 7.1 8.5 7.4
5 Apr60	3 520 3521 3529 3530 3 531 3532 3533 3534	498 ± 8 619 ± 9 1040 + 7 648 ± 3 1100 ± 3 1160 ± 3 1160 ± 5 1430 ± 4	5.9 6.6 6.4 7.1 6.9 6.0	12Apr60	3601 3602 3603 3605 3606 3607 3608 3609 3610	304 + 2 248 ∓ 2 280 ∓ 2 305 ∓ 3 321 ∓ 3 379 ∓ 4 382 ∓ 3 291 ∓ 4 313 ± 3	6.1 6.2 5.5 5.3 5.2 5.6 5.3 5.1

Table 4.7 (continued)

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Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90	<u> </u>	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰
12 Ap r60	3611 3612 3613 3614 3615 3624	300 + 5 275 + 6 234 + 5 315 + 8 363 + 3 163 + 5	4.2 4.9 4.1 4.3 5.5 4.9	19Apr60	3659 3660 3661 3662 3663	1150 +8 318 +5 290 +6 328 +6 332 +5	6.8 5.4 6.2 5.6 6.0
	3 626 3 627 3 628 3 629 3630	180 ± 2 661 ±6 425 ± 5 316 ± 3 231 ± 2	5.4 5.4 5.6 5.1 5.7	20Apr60	3664 3667 3669 3670 3672 3673	424 + 4 378 + 4 516 + 5 1050 + 9 1110 + 8 1200 + 11	6.1 5.3 5.9 6.6 6.9
14Apr60	3631 3632 3633 3634 3635 3636	1100 + 11 1460 + 15 1550 + 15 1710 + 12 1670 + 12	6.3 7.2 8.1 8.3 7.4 7.9		3674 3675 3676 3677 3679	1220 + 17 1220 + 77 1330 + 10 1650 + 10 1480 + 9 1290 + 8	7.3 7.0 6.4 7.7 7.6
	3 637 3 638 3639 3640 3641 3642 3 643 3644 3 645 3646 3647	1780 + 14 2060 + 16 1710 + 12 1700 + 14 1560 + 14 680 + 8 865 + 9 813 + 11 677 + 11 842 + 10 715 + 9 852 + 14	8.4 8.0 8.1 8.2 4.5 5.4 6.0 6.1 6.6 5.8	21Apr60	3680 3682 3689 3690 3691 3692 3693 3694 3695	125 + 2 126 + 2 12.2 + 2 176.2 + 2 388 + 4 464 + 5 440 + 3 482 + 3 450 + 2 507 + 6	6.3 5.8 5.4 6.3 6.9 5.6 5.9 5.9
	3 648 3 649 3 650	965 + 12 1290 + 13 1440 + 16	5.8 6.7 6.6	26Apr 60	3697 3698 3701	341 ∓ 5 425 ± 5 1110 ± 8	5.6 5.6 6.4
19 A pr60	3651 3652 3653 3654 3655 3656 3657 3658	188 ± 4 761 ± 8 584 ± 5 1360 ∓ 12 1470 ∓ 25 1700 ∓ 15 1400 ∓ 14 1410 ∓ 14	4.5 7.3 3.6 7.8 6.8 7.4 7.2 6.6		3702 3704 3705 3706 3707 3708 3709 3710 3712	1020 ∓ 10 978 ∓ 5 1590 ∓ 10 1740 ∓ 9 1470 ∓ 12 1490 ∓ 9 1500 ∓ 15 907 ∓ 11 1310 7	6.0 6.9 6.9 8.3 7.5 7.8 7.8

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰	Date	Sample No.	dpm . 1000 SCF	Ce ¹⁴⁴ Sr ⁹⁰
26Apr 60	3714 3715 3716 3717 3718	1330 ± 7 1200 ± 4 1510 ± 6 1240 ± 6 1620 ± 16	6.6 6.4 6.5 7.0	3May60	3762 3763 3764 3765 3766	375 + 4 336 + 4 384 + 4 357 + 6 320 + 5	5.3 5.4 5.1 4.9 5.7
27Apr60	3733 3734 3735 3736 3737 3738	1150 ± 6 1320 ∓ 5 1350 ∓ 8 1260 ∓ 9 352 ∓ 5 344 ∓ 6	8.0 11.1 9.1 7.7 7.4 7.0		3767 3768 3769 3770 3771 3772 3773	221 + 6 241 + 2 258 + 2 318 + 2 303 + 2 369 + 4 353 + 2	6.99 6.99 6.23 5.9
	3 739 3742 3743 3 744 3 745 3 746	749 ± 8 825 ∓ 4 1340 ± 9 1230 ± 9 1380 ∓ 10 2090 ± 13	7.5 7.2 7.2 6.8 6.8 10.3	5Ma y60	3780 3781 3785 3786 3788	900 + 5 610 ∓ 4 396 ∓ 8 419 ∓ 3 779 ∓ 4	6.3 4.9 4.8 4.3 5.3
28Apr60	3719 3720 3721 3 722 3730 3731 3732	417 + 4 518 + 5 842 + 5 889 + 10 1140 + 8 1230 + 12 1390 + 12	5.5 5.0 6.8 6.3 5.8 6.1 6.8	6May60	3789 3791 3793 3794 3795 3798 3799	964 ± 4 262 + 1 867 ± 5 1440 ± 7 1640 + 8 772 ∓ 4 1190 ± 6	5.4 7.5 7.3 7.5 6.9 6.8
30Apr60	3747 3748 3749 3750 3751 3753 3754 3756 3757	1210 + 7 2450 + 10 2420 + 12 1730 + 9 1370 + 5 1510 + 8 688 + 3 431 + 2 295 + 2	8.7 13.6 13.9 9.7 7.5 8.1 6.7 6.4 2.6	9May60	3800 3801 3802 3803 3808 3809 3810 3812 3813	1270 ± 8 1470 ± 9 298± 5 92.9 ± 3.9 294 ± 5 370 ± 9 636 ∓ 6	6.1 6.6 5.4 5.2 5.2 3.9 3.9
3May60	3758 3759 3760 3761	504 + 6 701 1 7 1170 + 8 784 + 6	6.9 6.8 7.4 7.1		3814 3816 3819 3820 3821	623 ∓ 7 513 ∓ 5 493 ∓ 6 694 ∓ 6 835 ∓ 7 1300 <u>∓</u> 14	5.1 5.0 5.0 5.3 6.3

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90	Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90
10May60	3822 3823	844 ± 5 844 ± 5 1400 ∓ 4	7.6 7.6 7.7	17May60	3842 3843	1770 ± 7 1770 ± 7	7.5 7.5
	382 4 3 825 3826 3827	1400 ± 4 1400 ± 4 1520 ± 8 1520 ± 8	7.7 7.6 7.6	19May60	3894 3896 3900	819 + 8 618 + 5 183 + 3	5.0 5.3 4.0
11May60	3828 3829	1610 ± 11 1610 ± 11	7.1 7.1	20May60	38 <u>44</u> 3876 3877	28.0 + 1.4 1470 + 12 1470 + 12	0.2 7.7 7.7
12May60	3849 3850 3851 3852	561 ± 6 417 ± 5 429 ∓ 7 552 ∓ 6	5.1 4.4 4.8 5.6		3878 3879 3880 3881	457 〒5 457 <u>〒</u> 5 1500 〒 6 1500 <u>〒</u> 6	5.9 5.9 6.8 6.8
	3853 3854 3855 3856	552, ∓6 664, ±5 483, ∓5 469, ∓5 279, ∓4	5.6 4.5 4.5 4.8	23May60	3873 3911 3913	386 + 3 871 + 3 325 + 1	5.2 5.0 4.4
	3865 3 866 3867	736 1 7 394 1 7 446 1 8 663 <u>1</u> 7	5.9 4.1 4.5 4.8	24 May60	3884 3904 3905	198 +2 756 + 2 756 + 2	5.5 6.3 6.3
	3868 3869 3870 3871 3872	751 ∓ 6 470 ∓ 6 445 ∓ 5 725 ∓ 6	5.6 4.4 3.7 5.3		3906 3907 3908 3909	1540 ± 22 1540 ± 22 1430 ± 6 1430 ± 6	6.6 6.6 7.7 7.7
13May60	3830 3831 3832	579 + 2 579 + 2 221 + 2 221 + 2	5.8 5.8 1.0	25May60	3887	421 + 3 96.2 +1.0	5.0 5.3
	3833 3834 3835	221 <u>年</u> 2 1570 <u>年</u> 5 1570 <u>年</u> 5	1.0 8.2 8.2	26May60	3916 3918 3919	606 ± 5 406 ± 5 406 ± 5 406 ± 5	5.9 4.8 4.8
14May60	3837	1510 ± 6 1510 ± 6	7. 0 7. 0	31 May60	3921 3930 3934	138 I 2 834 + 3 288 I 1	4,3 4,9 5,1
17May60	3838 3839 3840 3841	348 + 2 348 + 2 1630 + 7 1630 + 7	5.6 5.6 8.9 8.9	2Jun60	3942	473 ± 3	6.8

Table 4.7 (continued)

Date	Sample No.	dpm 1000 SCF	Ce 144 Sr 90
2Jun60	3943 3945 3946 3947 3949 3950 3952	639 + 9 240 + 3 240 + 3 105 + 2 105 + 2 250 + 3 639 + 9	4.9 5.1 5.1 4.0 4.0 5.1
6Jun60	3953 3954 3955 3956	$\begin{array}{c} 974 \pm 8 \\ 931 \pm 7 \\ 1140 \pm 10 \\ 1260 \pm 14 \end{array}$	5.9 5.2 5.7 5.5
8Jun60	3974 3975 3976 3977 3978 3979 3980 3981 3982 3983 3984 3985 3986 3987 3988	581 448 473 458 458 458 458 458 458 458 458	4.8 5.0 4.8 4.9 4.4 4.0 4.1 24.1 3.5 4.3 4.3 4.3
1 0Jun6 0	3960 3962 3964	136 + 1 446 T 2 816 T 2	4.9 4.9 5.3

ACTIVITIES OF TRACER AND COSMIC RAY NUCLIDES

Measurements of the tracer nuclides tungsten-185, tungsten-181 and rhodium-102, injected into the stratosphere during Hardtack, and of the cosmid ray products beryllium-7 and phosphorus-32 have yielded information on the mechanisms and rates of stratospheric mixing.

The tungsten isotopes, tungsten-185 (74 days) and tungsten-181 (120 days), serve as tracers for debris produced by certain surface shots during the mid-1958 Pacific test series. Analytical data for tungsten-185 are given in Table 4.3 and those for tungsten-181, together with measured ratios of tungsten-181 to tungsten-185, in Table 4.8. The activities of these nuclides are corrected for decay to 15 Aug 1958. The W¹⁸¹/W¹⁸⁵ ratio in samples collected during and after July 1959 dropped in value and became rather erratic indicating that the analysis for one or both of these nuclides was giving erroneous data. Consequently the analysis of individual samples for these nuclides was soon terminated and the analysis of composites of several samples for tungsten-185 was begun.

Rhodium-102 serves as a tracer for debris injected into the high atmosphere by the rocket shot, Orange, detonated at about 100,000 feet on 12 Aug 1958 over Johnston Island. Regular measurement of rhodium-102 in HASP samples began in January, 1960, with composites of samples collected during December 1959 being analyzed. Measurements of composites of later samples and of a few individual samples continued until the termination of sampling. A few composites of samples collected before December 1959 were then prepared and were analyzed. Analytical data for rhodium-102 are given in Table 4.9. Composites are numbered according to time of collection, 57, 1, 58.2, 59.1 etc., indicating the year of collection for older samples and D1, D2, J1, J2, etc., the month of collection for later samples. Thus O1 - O3 were collected during

October 1959 and D1, D2, etc. during December 1959. The composites designated J, F, and M were collected fluring January, February and March 1960, while those designated A were collected during April and May 1960 by aircraft flying from Minot, Laughlin and Ramey. Samples collected during Phase 5 (May and June 1960) were designated EN if collected at Eielson, Alaska and ES if collected at Ezeiza, Argentina. The concentrations are given for the collection date of the samples and for 12 Aug 1958.

Beryllium-7 (53 days) and phosphorus-32 (14.5 days) are among the nuclides formed by cosmic ray bombardment of air molecules in the upper atmosphere. Their rates of formation and equilibrium concentrations may be calculated using data on the intensity of cosmic radiation as a function of latitude and altitude in the stratosphere. Comparison of measured concentrations with the theoretical concentrations may be useful for deducing rates and directions of mixing and transfer of stratospheric air. Measured concentrations of beryllium-7, corrected for decay to collection date, are included in Table 4.9 because most of the composites which were analyzed for rhodium-102 were also analyzed for this nuclide. There appears to be a discrepancy between data for the first samples that were analyzed for this nuclide and data for samples (collected during and after October 1959) which were analyzed later, and the former are assumed to be in error. The data are expressed in dpm/1000 SCF, the same units used to express concentrations of nuclear debris.

The measurement of phosphorus-32 in HASP samples was begun in May 1960, and samples collected during April, May and June 1960 were analyzed. The results of these measurements are given in Table 4.10, where the concentrations of phosphorus-32 are expressed as dpm/1000 SCF and as atoms per gram of air, both on collection date. The ratio of beryllium-7 to phosphorus-32 is also given, both as a ratio of activities (dpm Be⁷/dpm P³²) and as a ratio of atoms (atoms Be⁷/atoms P³²).

Table 4.8 Tungsten-181 Analyses

		Activitie (corr. to 15 A		-		Activit	Aug 58)
Date	Sample No.	dpm 1000 SCF	W ¹⁸¹ W ¹⁸⁵	Date	Sample No.	dpm 1000 SCF	W181 W185
29May58	523	4240 <u>+</u> 68	0.91	16Dec58	927 928	1 1900 ± 150 3350 + 60	0.80 0.81
20Jun58	555	4080 <u>+</u> 53	0.97			-	•
24Jun58	563	72300 <u>+</u> 2900	1.01	19Dec58	935 936	8890 ± 130 18000 ± 250	0.85 0.87
28Jun58	570	12700 + 130	1.04		937 938	5290 平 130 8720 平 160	0.95 0.83
200 011.50	571	35500 + 180	0.99		939	16000 + 270	0.83
		<u></u>	- • • •		9 4 0	26600 + 270	0.83
1Ju158	576	1550 <u>+</u> 22	0,97		941	28400 T 400	0.81
47.470					942	205 00 <u>∓</u> 230	0.78
4Ju158	582	8450 ± 110	1.00	000 50	050	-	
	584	6960 <u>∓</u> 28	0.96	23 Dec 58	952 953	9870 <u>+</u> 140 12400 + 110	0.78
17Sep58	962	1950 <u>+</u> 41	0.97		954	10500 7 990	0.81 0.81
	,	-,00	•• /.		958	1400 + 20	1.12
23Sep58	630	41300 ± 170	0.83		959	1930 🕇 31	0.81
					960	4500 <u>∓</u> 81	0.90
27Sep58	964	657 <u>+</u> 15	0.46				
10Oct58	672	3190 ± 57	0.00	6Jan59	969	7770 ± 70	0.77
100000	012	3180 <u>+</u> 57	0.99		972 977	2080 1 46 7980 干96	0.87 0.81
140ct58	689	51600 + 260	0.73		978	2460 + 39	0.96
	690	60800 T 430	0.87		,		.,,
				9Jan59	985	1940 <u>+</u> 49	0.99
170ct58	698	55200 ± 220	0.87		987	2980 干 65	0.93
	701	2780 <u>∓</u> 130	0.82		989	2990 王 54	0.91
21Oct58	721	4070 + 37	0.00		993	11300 T 170	0.88
2100130	,	4010 T 31	0.99		994 996	7620 ∓ 61 8860 ∓ 120	0.48 0.94
29Oct58	746	3250 + 59	0.63		,,,	0000 <u>+</u> 120	0.72
		•		1 3J an59	997	18500 + 170	1.26
20Nov58	820	3050 <u>+</u> 46	1.44		1000	4 510 <u>干</u> 59	0.92
253150	930	1/00 : 22	0.00		1002	860 王 14	0.85
25Nov58	839 841	1600 + 33 9050 T 91	0.83 0.88		1005	1990 ∓ 38	0.84
	843	837 T 19	0.88		1006	3430 王 45	0.83
	- 10	- I	V. 11	16Jan59	1010	8640 + 130	0, 75
3Dec58	872	8710 <u>+</u> 170	0.80		1011	20500 7 210	0.83
		_			1012	23500 ± 420	0.81
9Dec58	893	1420 <u>+</u> 26	0.86		1013	23100 ± 230	0.78
120-50	000	13400 + 1300	A 85		1014	7200 <u>∓</u> 65	1.59
12Dec58	909	13600 ± 1200	0.85		1022	2200 <u>∓</u> 50	0.89

Table 4.8 (continued)

		Activities (corr. to 15 Aug 58)				Activities (corr. to 15 Aug 58)	
Date	Sample No.	dpm 1000 SCF	W181 W185	Date	Sample No.	dpm 1000 SCF	W ¹⁸¹ W185
19Jan59	1023 1024	8090 ± 110 5510 ± 72	0.87 0.92	26May59	1508	3350 ± 77	0.85
		• —		5Jun59	1547	3440 + 100	0.89
22Jan59	1031	2120 + 38 1790 + 38	0.97 0.79	12Jun59	1576	2760 <u>+</u> 83	0.81
	1033	2260	0.86	14Jun59	1606	3140 <u>+</u> 53	0.79
25Jan59	1036 1038	4550 + 73 9980 + 160	0.87 0.91	16Jun59	1617	3360 + 54	0.91
28Jan59	1042	1390 ± 31	0.81	23Jun59	1724	8310 <u>+</u> 140	0.93
	1047 1048	1740 干 38 4710 干 61	0.93 0.90	3Jul59	1758	7 450 + 130	0.82
	1052	1 8 10 <u>∓</u> 51	0.77		1759	6710 🛨 150	0.83
3Feb59	1060	2020 <u>+</u> 38	0.94	7Ju159	1781	2420 + 240	~ ~
6Feb 5 9	1078	6 3 90 <u>+</u> 96	0,81		1 783	1050 <u>∓</u> 160	
	1080 1082	2310 <u>∓</u> 46 3 44 0 ∓ 58	0.94 0.86	7Jul59`	1795	534 <u>+</u> 110	
14Feb59	1101	_	0.75	10Jul59	1802	925 + 190	
141 6037	1101	2720 + 57 4680 + 94	0.75		180 4 1806	1040 王 210 1200 王 240	
	1111	16500 T 160	0.96		1807	1100 7 220	
	1112	18500 \pm 150	0.87		1813	925 王 190	
20Feb59	1126	4410 + 97	0.84		1 815 1819	1800 + 180 2140 + 210	
202000,	1131	15700 <u>∓</u> 140	0.86		1820	2130 ± 320	
28Feb59	1158	2450 ± 370		1 4 Ju159	1824	3730 ± 370	
	1170	753 王 110	3.19		1838	2080 T 310	
21Apr59	1382	1870 <u>+</u> 37	0.88		1839 1840	2790 ∓ 280 2420 	0.30
22Apr59	1663	810 <u>+</u> 12	0.74	17Ju159	1849	1400 <u>+</u> 280	
1 May 59	1417	1140 <u>+</u> 170			1853 1855	1680 <u>∓</u> 170 2880 ∓ 290	
8May59	1431	4 140 <u>+</u> 87	0.86		1 856 1857	2140 ∓210 2600 ∓260	
17May59	1468	34 20 + 89	0.81			<u> </u>	
24May59	1498	3020 + 82	0.78				

Table 4.8 (continued)

		Activities (corr. to 15 Aug58)				Activities (corr., to 15 Aug 58)		
Date	Sample	dpm	M.187	Date	Sample	dpm	W181	
24.0	No.	1000 SCF	W.185		No.	1000 SCF	wl 85	
				-				
19Jul59	1866	923 + 140		21Aug59	2320	389 <u>+</u> 39		
	1867	1030 + 150		_	2341	349 <u>∓</u> 35		
	1868	1040 Ŧ 160			2342	445 <u>∓</u> 45		
	1869	1210 干 180				_		
	1870	1440 Ŧ 140		18Sep59	2108	986 <u>+</u> 200		
	1871	1550 T 160		-	2109	1010 ∓ 150		
	1872	1440 Ŧ 140			2113	1130 ∓ 230		
	1873	1350 T 200			2121	1050 7210	0.26	
	1874	1340 ¥ 200			2122	498 T 100	0.12	
	1875	1220 T 240			2123	498 〒 100 891 <u>〒</u> 180		
	1876	1200 + 240			2125	902 <u>∓</u> 180	0.23	
	1877	1070 ¥ 210	0.47		2126	803 T 160	0.33	
	1878	1180 + 240			2130	1180 T 240	0.58	
	1879	1100 7 220			2131	812 T 160		
	1882	1520 T 230	-1 40		2132	843 T 130		
	1886	1260 + 250			2135	827 ∓ 170	0.24	
	1000	7000 - 200			2136	928 T 190		
21Ju159	1930	651 <u>+</u> 130			2137	1830 + 270		
2104157	1,50				2138	1270 7 250	0.23	
24Ju159	1923	1030 + 100	0.28		2139	1 840 🕇 180		
2450157	1925	1210 T 120	0.51	•	2140	1100 7 220	0.25	
	1 /23	<u>.</u>				-		
26Jul59	1943	1050 <u>+</u> 160		225ep59	2151	939 <u>+</u> 94	0.27	
	1 944	1010 T 150			2152	1110 ± 110	0.38	
	19 4 5	836 I 170			2153	939 ∓ 9 <u>4</u> 677 ∓ 100		
	1 94 6	1140 <u>干</u> 170			2154	677 ± 100	0.16	
	1947	789 <u>∓</u> 160			2158	450 + 90 543 + 110	0.27	
	1949	1070 T 210			2159	543 ± 110		
	1950	1190 T 240			2160	807 I 81		
	1953	1170 Ŧ 230						
		_		235ep59	2163	395 <u>+</u> 79	≥1 ,38	
31Ju159	2004	2230 + 220			216 4	596 王 89		
	2005	2110 T 210						
		_		25Sep59	2165	1180 <u>+</u> 240	0.38	
4.Aug59	2022	1570 + 310			2166	1150 王 230	0.37	
J .	2023	2360 T 350			2168	1510 <u>∓</u> 300	1,52	
	2024	2230 T 330			2171	1550 <u>平</u> 310		
	2025	2030 平 410				_		
	2026	1640 干 330	0,28	29Sep59	2197	1050 <u>+</u> 210		
		_		-	2198	1070 王 210		
7Aug59	2046	1150 <u>+</u> 230						

Table 4.8 (continued)

Activities (corr. to 15 Aug 5			Aug 58)			Activities (corr. to 15 Aug 58)		
Da te	Sample No.	dom 1000 SCF	W181 W1.85	Date	Sample No.	dpm 1000 SÇF	W ¹⁸¹ W ¹⁸⁵	
30Sep59	2173	775 <u>+</u> 160		14Oct59	2310	247 + 49		
	2174	905 + 180	0.31		2312	305 T 61	≒ =	
	2175	802 I 160	0.26		2313	664 干 66 248 干 50		
	2177	700 1 140			2314	248 ± 50		
	2178	562 I 110	0.23		2315	254 T 51		
	2179	536 I 110	0.29		2318	312 ∓ 62		
10-450	2225	045 + 130			2343	266 T 27		
10ct59	2227 2228	845 <u>+</u> 130 754 <u>+</u> 150			2344	247王 25		
		_		15Oct59	2372	1070 <u>+</u> 210	0.19	
6Oct59	2232	738 <u>+</u> 150				:		
	2233	1000 ± 100		16Oct59	2321	701 <u>+</u> 1 4 0		
	2234	794 ± 160			2322	798 I 120		
	2235	765 ± 150			2323	763 ± 110		
	2236	717 <u>∓</u> 140			2324	694 <u>∓</u> 140	_=	
	2237	1650 ± 170			2325	88 4 T 130	~ ~	
	2253	1480 ∓ 300			2326	803 I 160		
	2259	9 85 T 200			2328	999 T 200		
	2261	1410 T 280			2330	1020 王 200		
	2262	1480 300	0.40					
00-450	2201	2222 : 222		20Oct59	2392	954 ± 190		
80ct59	2286	3300 <u>+</u> 330			2393	1330 🛨 130		
00-450	22/4	453 . 00			2394	958 T 140		
9 Oct59	2264	452 + 90 748 + 75			2395	950 T 140		
	2265	748 ± 75			2397	2170 I 220		
	2268	878 1 130 751 1 150			2403	2280 王 340		
	2269 2271	101 ± 100			2407	1620 7 320		
	2272	698 T 140 980 T 150			2408	1740 王 350		
	2273	1080 + 160			2409	1610 T 320		
	4413	1000 ± 100			2410	2040 <u>∓</u> 410		
13Oct59	2298	916 ± 180		22Oct59	2426	721 + 140		
	2299	1090 ± 160	0.38		2439	1390 🛨 280		
	2304	572 T 110			2436	728 王 150		
	2353	613 ∓ 120	0.73					
	2354	695 🛨 140		27Oct59	2442	868 ± 170		
	2356	957 T 190			2443	1030 王 150		
	2357	1670 🛨 170	0,86		2446	935 <u>∓</u> 190		

Table 4.8 (continued)

		(corr. Activi	ties Aug <u>58)</u>
Date	Sample	dpm	w181
	Nc.	1000 SCF	w185
Andreas of Angrill Street	******		VV
28Oct59	2462	417 + 83	
•	2463	424 T 85	
30Oct59	2483	513 + 100	
	2 4 88	750 干 150	
	2492	957 干 190	
	2509	331 T 66	
/33		-	
6Nov59	2533	759 <u>+</u> 110	
	2534	894 7 89	
	2536	800 <u>∓</u> 120	
	2537	282 T 56	
	2538	306 <u>∓</u> 61	
12Nov59	2638	826 + 170	
		<u> -</u>	
13Nov59	2615	733 <u>+</u> 110	0.49
19Nov59	2654	744 150	
.,,	2675	746 ± 150 1480 ± 220	0 53
	2015	1460 <u>T</u> 220	0.53
1Dec59	2753	1770 + 350	
	2754	1920 7 380	
	2757	1730 + 350	
	2742	1080 7 220	
		-	
9Dec59	2826	872 <u>+</u> 170	
11050		_	
11Dec59	2856	675 ± 140	
	2857	387 T 77	
	2858	326 I 65	

Table 4.9 Rhodium-102 and Beryllium-7 Analyses

omposite or			dpm Rh 102/		dpm Be7
ample No.	Date	Sample Numbers	Coll. Date	12 Aug 58	1000 SCF
57.1	8 Nov 57 12 Nov 57	44 , 45 , 46 , 47 60, 61	48, 5 <u>+</u> 5, 5	19.2 + 2.2	
58. 1	16 Sep 58 19 Sep 58	610, 611, 612, 613 615	10.2 + 1.1	11.4 <u>+</u> 1.3	
58.2	17 Oct 58	692, 693, 694 695, 698, 699	≤ 0.5	≤ 0.7	
58. 3	19 Dec 58	935, 936, 937 938, 939, 940	≤ 0.7	≤ 1.1	
59. 1	1 Apr 59	1301, 1302, 1303, 1304, 1305, 1306	≤ 0.6	≤ 1.3	
59. 2	14 Apr 59	1362, 1363, 1364 1365, 1366, 1367	0.27 <u>+</u> 0.03	0.61 <u>+</u> 0.07	
59. 3	5 May 59 17 May 59	1427, 1428, 1429, 1430 1468, 1469	≤ 0.4	< 0.9	
59.4	2 Jun 59	1522, 1523, 1524, 1525, 1526, 1527	≤ 0.4	≤ 1.0	
59. 5	16 Jun 59	1629, 1630, 1631, 1632, 1633, 1634	0.47 <u>+</u> 0.06	1. 29 <u>+</u> 0. 16	
59.6	23 Jun 59	1700, 1701, 1702, 1703, 1723, 1724	≤ '0, 3	≤ 0.8	
59.7	16 Jun 59 23 Jun 59	1671, 1672 1725, 1726, 1727, 1728	≤ 0.2	≤ 0.5	
59. 8	7 Jul 59	1790, 1791, 1792, 1793	≤ 0.3	≤ 1.0	
59.9	16 Jul 59 7 Jul 59	1864 1796	≤ 0.4	≤ 1.3	
59. 10	21 Jul 59	1904, 1905, 1906, 1907, 1908, 1909	0.78 <u>+</u> 0.09	2.41 ± 0.28	
59. 11	24 Jul 59	1914, 1915, 1918 1917, 1918, 1919	≤ 0.2	≤ 0.5	
59. 12	21 Jul 59 24 Jul 59		0. 16 <u>+</u> 0. 02	0.50 <u>+</u> 0.06	
59. 13	28 Jul 59 30 Jul 59 6 Aug 59	1989, 1990	≤ 0.1	≤ 0.3	••
59. 14	4 Aug 59	2009, 2010, 2017 2018, 2019, 2020	≤ 0.3	≤ 0.9	**
59. 15	7 Aug 59	2027, 2028, 2037 2038, 2039, 2040	≤ 0.2	< 0.7	
01	27 Oct 59	2446, 2447, 2448 2449, 2450, 2451		••	728 <u>+</u> 2
02	27 Oct 59	2456, 2457, 2458 2459, 2460, 2461	**	••	863 <u>+</u> 1
03	28 Oct59	2471, 2472, 2473 2474, 2475, 2476	•-	••	728 <u>+</u> 1
DI	1 Dec 59	2723, 2724			650 <u>+</u> 1
D2	1 Dec 59	2725, 2726, 2727			989 <u>+</u> 1

Table 4.9 (continued)

Composite			dpm Rh ¹⁰² /10	00 SCF	dpm Be 7
Sample No.	Date	Sample Numbers	المستحدث والمستحدد والمستحدد والمستحدد	12 Aug 58	1000 SCF
D3	1 De c 5 9	2733, 2734, 2735, 2736			622 + 12
-	•				-
D4	1Dec59	2751, 2752, 2753	0.565 ± 0.041	2.71 ± 0.20	319 <u>+</u> 11
D5	1Dec59	2759, 2760, 2761 2762	0.590 ± 0.039	2.83 ± 0.19	4·13 ± 9
D6	3Dec59	2769, 2770, 2771 2772, 2773, 2774	0.257 <u>+</u> .014	1.25 ± .068	597 <u>+</u> 7
D7	8Dec59	2817, 2818, 2819, 2820	0.866 ± 0.044	4.26 ± 0.22	689 <u>+</u> 9
D8	10Dec59	2847, 2848, 2849, 2850	9.69 <u>+</u> 1.08	48.0 ± 5.3	951 <u>+</u> 17
D9	15Dec59	2877, 2878, 2879, 2880, 2881, 2882	0.459 ±0.024	2.31 ± 0.12	449 <u>+</u> 5
D10	17Dec59	2904, 2905, 2906, 2907, 2908, 2909	0.866 ±0.041	4.39 ± 0.21	766 <u>+</u> 8
D11	17Dec59	2916, 2917, 2918, 2919	5.32 ± 0.21	27.0 <u>+</u> 1.1	829 <u>+</u> 12
D12	18Dec59	2927, 2928, 2929	0.279 ± 0.020	1.41 ± 0.10	460 <u>+</u> 9
D13	22Dec59	2945, 2946, 2947, 2948	1.27 ± 0.07	6.52 ± 0.36	491 <u>+</u> 16
D14	23Dec59	2955, 2956, 295 7	10.2 ± 0.4	52,5 ± 2,1	728 <u>+</u> 15
J1	5Jan 60	2966, 2 967, 29 68 , 29 69	6.31 ± 0.30	33.9 <u>+</u> 1.6	697 <u>+</u> 12
J2	7Jan60	3009, 3010, 3011, 3012	0.460 <u>+</u> 0.029	2.49 ± 0.16	388 <u>+</u> 6
Ј3	7Jan6 0	2988, 2989, 2990	0.545 ±0.087	2.95 ± 0.4	7 461 <u>+</u> 6
J4	7Jan60	2991, 2992, 2993	0.597 <u>+</u> 0.035	3.24 ± 0.19	584 <u>+</u> 8
J5	7Jan60	2998, 2999, 3000, 3001, 3002	0.241 ± 0.017	1.31 ± 0.09	92 321 <u>+</u> 4
J6	1 2 Jan60	3025, 3026, 3027, 3028	0.822 ± 0.048	4.52 ± 0.20	6 305 <u>+</u> 8
J7	1 2 Jan60	3033, 3034, 3035	1,25 ± 0,20	6.88 <u>+</u> 1.10	315 <u>+</u> 10
J8	1 2Jan60	3036, 3037, 3038	0.914 <u>+</u> 0.058	5.03 ± 0.3	2 2 6 7 <u>+</u> 1 1

Table 4.9 (continued)

Composite			dpm Rh ¹⁰² /1000	SCF	dpm Be 7
Sample No.	Date	Sample Numbers	Coll. Date	12 Aug 58	1000 SCF
J9	12Jan60	3039, 3040, 3041,3042	2.41 <u>+</u> 0.11	13.3 <u>+</u> 0.61	6 17 <u>+</u> 7
J10	12Jan60	3043, 3044	13.3 ± 0.6	73.2 <u>+</u> 3.3	758 <u>+</u> 14
J11	12Jan60	3049, 3051, 3052, 3053	38.1 <u>+</u> 1.2	210 ± 6.6	1163 <u>+</u> 16
J12	14Jan60	3067, 3068, 3069, 3070, 3071	1.56 ± 0.08	8.69 <u>+</u> 0.45	281 <u>+</u> 7
J13	15Jan60	3080, 3090	14.8 ± 0.5	82.6 ± 2.8	793 <u>+</u> 11
J14	19Jan60	3096, 3097, 3099, 3100, 3101	0.363 <u>+</u> 0.020	2.05 <u>+</u> 0.11	417 <u>+</u> 5
J15	19Jan60	3098, 3106, 3107, 3108, 3109	0.239 ± 0.016	1.35 <u>+</u> 0.090	5 08 ± 6
J16	19 Jan 60	3116, 3117	0,451 <u>+</u> 0,028	2.55 ± 0.16	576 <u>+</u> 7
J17	19Jan60	3118, 3119, 3120, 3121	0.880 <u>+</u> 0.042	4.97 ± 0.24	487 <u>+</u> 7
J18	22Jan60	3126, 3127	1.72 <u>+</u> 0.08	9.80 ± 0.46	716 <u>+</u> 11
J19	22Jan60	3128, 3129, 3130	4.19 ± 0.16	23.9 ± 0.91	644 <u>+</u> 9
J20	22Jan60	3136, 3137, 3138, 3139	17.2 <u>+</u> 1.3	98.0 <u>+</u> 7.4	993 <u>+</u> 15
J2 1	21Jan60	3147, 3148, 3149, 3150, 3151	39.9 ± 3.0	226 <u>+</u> 17	13 06 <u>+</u> 14
J22	26Jan60	3160, 3161	7.87 <u>+</u> 0.61	45.6 <u>+</u> 3.5	770 <u>+</u> 14
J23	26Jan60	3162, 3163, 3164, 3165	12.8 <u>+</u> 1.0	74.2 <u>+</u> 5.8	761 <u>+</u> 11
J24	26Jan60	3170, 3171	≤ 0.033	≤ 0.191	273 <u>+</u> 7
J25	29Jan60	3184, 3185, 3186, 3187, 3188, 3189	≤ 0.008	≤ 0.047	211 <u>+</u> 3
J26	29Jan60	3196, 3197, 3198, 3199	≤ 0.020	≤ 0, 117	463 <u>+</u> 7
Fl	2Feb60	3204, 3205, 3206	1,83 ± 0,15	10.8 + 0.8	8 542 ± 13
F2	2Fe b60	3207, 3208, 3209	≤ 0, 129	≤ 0.759	570 <u>+</u> 9
F3	2Feb60	3217, 3218, 3219	0.547 <u>+</u> 0.039	3,22 ± 0,23	5 47 <u>+</u> 14

Table 4, 9 (continued)

Composite			dpm Rh ¹⁰² /1000 SCF		dpm Be ⁷
Sample No.	Date	Sample Numbers	Coll. Date	12 Aug 58	1000 SCF
F4	4F eb60	3242, 3243, 32 4 4	5.59 <u>+</u> 0.24	33,2 <u>+</u> 1,4	547 <u>+</u> 12
F 5	11Feb60	3283, 3284, 3285, 3286	23.8 ± 0.8	144 ± 4.8	838 <u>+</u> 13
F 6	11 Feb60	3293, 3294, 3295, 3296	4,22 ± 0,16	25.6 ± 0.97	5 23 <u>+</u> 9
F7	16Feb60	3309, 3310, 3311	0.927 ± 0.061	5.75 ± 0.38	272 <u>+</u> 7
F8	16Feb60	3316, 3317, 3318 3319, 3320	0.857 <u>+</u> 0.046	5.31 <u>+</u> 0.29	610 <u>+</u> 5
F9	16.Feb60	3328, 3329, 3330, 3331	27.9 ± 1.2	173 <u>+</u> 7.4	887 <u>+</u> 10
F10	18Feb60	3336, 3337, 3338	0.290 ± 0.021	1.81 ± 0.13	628 <u>+</u> 6
F11	18Feb60	3339, 3340, 3341	0.834 <u>+</u> 0.047	5.20 ± 0.29	606 <u>+</u> 6
F12	19Feb60	3346, 3347	0.326 <u>+</u> 0.022	2.04 ± 0.14	
F13	23Feb60	3357, 3367	33.9 ± 1.4	214 ± 8.8	989 <u>+</u> 10
F14	25Feb60	3372, 3373, 3374	2.67 ± 0.13	17.0 <u>+</u> 0.83	819 <u>+</u> 9
F15	25Feb60	3375, 3376, 3377	1.33 ± 0.07	8,45 ± 0,4	4 680 <u>+</u> 7
F16	25Feb60	3388, 3389, 3390, 3391	2.49 ± 0.08	15.8 ± 0.5	1 824 <u>+</u> 12
F17	25Feb60	3398, 3399, 3400, 3401	5.32 ± 0.21	33.7 ± 1.3	414 <u>+</u> 8
M1	1Mar60	3406, 3407, 3408	0.622 <u>+</u> 0.030	4.04 ± 0.2	0 631 <u>+</u> 6
M2	1Mar60	3409, 3410, 3411	0.477 ± 0.027	3. 10 ± 0. 1	8 565 <u>+</u> 6
м3	3Mar60	3416, 3417	6.31 ± 0.23	41.2 ± 1.5	616 <u>+</u> 5
M4	4Mar60		19.5 <u>+</u> 0.6	128 <u>+</u> 3.9	626 <u>+</u> 11
M5	4Mar60	3425 3430, 3431, 3432, 3433, 3434	1,25 <u>+</u> 0.08	8. 19 <u>+</u> 0. 5	52 269 <u>+</u> 11
М6	10Mar60	3439, 3440, 3441	≤ 0.016	≤ 0.107	304 <u>+</u> 21
M7	10Mar60	3442, 3443, 3444	0.150 <u>+</u> 0.023	1.01 ± 0.	15 326 <u>+</u> 4

Table 4.9 (continued)

Composite		e.	dpm Rh 102/10	000 SCF	dpm Be 7
or Sample No.	Date	Sample Numbers	Coll. Date	12 Aug 58	1000 SCF
M8	10Mar60	3449, 3450	2.43 <u>+</u> 0.23	16.3 <u>+</u> 1.5	513 <u>+</u> 9
М9	10Mar60	3451, 3452	4,33 <u>+</u> 0.62	29.0 <u>+</u> 4.2	502 <u>+</u> 10
MlO	11Mar60	3455, 3456, 3457	0.380 <u>+</u> 0.017	2.55 ± 0.11	527 <u>+</u> 5
Mll	llMar60	3458, 3459, 3460	6.94 <u>+</u> 0.63	46.6 ± 4.2	790 <u>+</u> 7
M12	22Mar60	3461, 3462, 3463	0.440 ± 0.043	3.06 ± 0.30	4 15 <u>+</u> 4
M13	22Mar60	3464, 3465, 3466	3.21 ± 0.30	22.3 ± 2.1	499 <u>+</u> 5
M14	24Mar60	3467, 3468, 3469	16.0 <u>+</u> 1.5	112 <u>+</u> 11	750 <u>+</u> 11
M15	24Mar60	3470, 3471, 3472	18.7 <u>+</u> 0.9	131 <u>+</u> 6.3	777 <u>+</u> 18
. M16	22Mar60	3479, 3480, 3481, 3482	0.970 <u>+</u> 0.054	67.4 ± 0.38	2 92 <u>+</u> 6
M17	24Mar60	3487, 3488, 3489	18:7 <u>+</u> 0.9	131 <u>+</u> 6.3	7 18 <u>+</u> 14
M18	24Mar60	3 4 90 , 34 91 , 3492	23.8 ± 1.1	167 <u>+</u> 7.7	764 <u>+</u> 16
M19	29Mar60	3508, 3509	7.13 \pm 0.36	50.8 ± 2.6	592 <u>+</u> 11
M20	29Mar60	3510, 3511, 351 2 , 3513	8.85 <u>+</u> 0.42	63.1 <u>+</u> 3.0	423 <u>+</u> 7
M21	29Mar60	3519, 3520, 3521	6.22 <u>+</u> 0.30	44.3 <u>+</u> 2.1	535 <u>+</u> 12
M22	31Mar60	3523, 3524, 3535	1.29 <u>+</u> 0.07	9.22 ± 0.50	347 <u>+</u> 6
M23	31Mar60	3526, 3527	6.13 <u>+</u> 0.23	43.8 ± 1.6	3 54 <u>+</u> 6
Al	5Apr 60	3533, 3534	8.14 <u>+</u> 0.25	59.2 <u>+</u> 1.8	6 07 <u>+</u> 11
A2	5Apr 60	3535, 3536, 3537, 3538	14.8 <u>+</u> 0.8	108 <u>+</u> 5.8	7 93 ± 10
A3	5Apr60	3549, 3550, 3551, 3552	2 0.985 <u>+</u> 0.120	7.16 <u>+</u> 0.87	270 <u>+</u> 6
A4	5Apr60	3559, 3560, 3561, 3562	2 1.54 <u>+</u> 0.19	11.2 ± 1.4	251 <u>+</u> 10

Table 4,9 (continued)

Composite or			dpm Rh ¹⁰² /10	000 SCF	dpm Be 7
Sample No.	Date	Sample Numbers	كالمستقد المراجعين المراجعين المستقدا	12 Aug 58	1000 SCF
A5	7Apr60	3568, 3569, 3570, 3571			204 ± 9
A.6	7Apr60	3577, 3578, 3579, 3580	1.95 ± 0.15	14.3 ± 1.1	278 <u>+</u> 8
A7	7Apr60	3585, 3586, 3587	0.329 ± 0.017	24.1 ± 0.12	432 <u>+</u> 6
A8	7Apr60	3588, 3589, 3590	0.687 <u>+</u> 0.028	5.04 ± 0.21	293 <u>+</u> 6
A9	12Apr60	3605, 3606, 3607	0.422 <u>+</u> 0.018	3.14 ± 0.13	383 <u>+</u> 6
A 10	12Apr60	3608, 3609, 3610	0.407 ± 0.017	3.03 ± 0.13	399 <u>+</u> 5
A11	12Apr60	3615, 3616, 3617, 3618, 3619, 3620			193 <u>+</u> 4
A12	12Apr60	3627, 3628, 3629	1.71 ± 0.07	12.7 ± 0.52	160 <u>+</u> 3
A13	14Apr60	3635, 3636, 3637, 3638, 3639, 3640	0.581 <u>+</u> 0.065	4.38 ± 0.49	691 <u>+</u> 8
A14	14Apr60	3645, 3646, 3647, 3648, 3649, 3650	1,53 <u>+</u> 0,07	11.5 ± 0.53	440 <u>+</u> 7
A15	19Apr60	3656, 3657, 3658, 3659			651 <u>+</u> 13
A16	20Apr60	3664, 3665, 3666, 3667, 3668, 3669	1.83 ± 0.05	14.0 ± 0.38	511 <u>+</u> 16
A17	20Apr60	3674, 3675	12.8 <u>+</u> 0.4	97.9 ± 3.1	628 <u>+</u> 14
A18	20Apr60	3676, 3677, 3678, 3679	2.41 ± 0.27	18.4 <u>+</u> 2.1	640 <u>+</u> 12
A19	21Apr60	3684, 3685, 3686, 3687, 3688, 3689	***		73.1 <u>+</u> 2.6
A20	21Apr60	3694, 3695	2.18 <u>+</u> 0.08	16.8 ± 0.62	482 <u>+</u> 10
A21	21Apr60	3696, 3697, 3698	0.763 ± 0.040	5.86 <u>+</u> 0.31	329 <u>+</u> 8
A22	26Apr60	3706, 3707, 3708, 3709	7.39 <u>+</u> 0.82	57.6 + 6.4	689 <u>+</u> 13
A23	26Apr60	3714, 3715, 3716, 3717, 3718	4.07 ± 0.45	31.7 <u>+</u> 3.5	634 <u>+</u> 10
A24	28Apr60	3730, 3731, 3732			629 <u>+</u> 12

Table 4.9 (continued)

Composite	e		dpm Rh 102/	1000 SCF	dpm Be 7
Sample N	C. Date	Sample Numbers	Coll Date	12 Aug 58	1000 SCF
A25	27Apr60	3741, 3742	29.0 <u>+</u> 2.9	227 <u>+</u> 22.7	1159 ± 7
A2 6	27Apr60	3743, 3744, 3745, 3746	2.26 ± 0.25	17.7 <u>+</u> 2.0	614 <u>+</u> 9
A27	30Apr60	3747, 3748	2.19 ± 0.24	17.3 <u>+</u> 1.9	306 <u>+</u> 6
A28	30Apr60	3749, 3750	11.8 ± 1.3	93.2 <u>+</u> 10.0	1181 <u>+</u> 43
A29	3May60	3762, 3763, 3764, 3765, 3766, 3767			396 <u>+</u> 4
A30	3May60	3772, 3773, 3774, 3775, 3776, 3777			424 <u>+</u> 6
A31	5 May 60	3784, 3785, 3786, 3787, 3788, 3789			247 <u>+</u> 5
A32	6May60	3800, 3801	9.87 <u>+</u> 1.09	79.9 <u>+</u> 8.8	857 <u>+</u> 32
A33	9May60	3816, 3817, 3818, 3819, 3820, 2821	< 0.023	≤ 0, 188	246 <u>+</u> 12
EN1	10May60	3822, 3823	3.01 ± 0.38	24.7 <u>+</u> 3.1	511 <u>+</u> 10
EN2	10May60	3824, 3825	8.96 <u>+</u> 1.13	73.5 <u>+</u> 9.7	6 99 <u>+</u> 13
EN3	10May60	3826, 3827	3.77 <u>+</u> 0.49	30.9 <u>+</u> 4. 0	769 <u>+</u> 18
EN4	11May60	3828, 3829	1.47 ± 0.16	12.1 <u>+</u> 1.3	942 <u>+</u> 31
EN5	13 May60	3830, 3831	≤ 0.030	≤ 0,249	526 <u>+</u> 17
EN6	13May60	3832, 3833	4.32 ± 0.38	35.8 ± 3.2	822 <u>+</u> 27
EN7	13 May 60	3834, 3835	5.03 ± 0.52	41.7 <u>+</u> 4.3	1014 <u>+</u> 39
EN8	14 May 60	3836, 3837	7.17 ± 0.70	59.6 <u>+</u> 5.8	72 4 <u>+</u> 26
EN9	17May60	3838, 3839	1.30 ± 0.14	10.9 <u>+</u> 1.2	389 <u>+</u> 15
EN10	17May60	3840, 3841	9.90 ± 1.22	83.2 <u>+</u> 10.0	10 54 <u>+</u> 15
EN11	17May60	3842, 3843	13.5 ± 1.7	113 <u>+</u> 14	999 <u>+</u> 26
ES1	12May60	3849, 3853, 3865 3869	1.09 ± 0.12	9.00 <u>+</u> 0.99	401 <u>+</u> 20

Table 4.9 (continued)

Composite			dpm Rh 102/1	000 SCF	dpm Be ⁷
Sample No.	. Date	Sample Numbers	Coll. Date	12 Aug 58	1000 SCF
ES2	12May60	3850, 3854, 3866, 3870	0.359 ± 0.040	2.97 ± 0.33	255 <u>+</u> 13
ES3	12May60	3851, 3855, 3867, 3871	0,205 ± 0,023	1.69 <u>+</u> 0.19	247 <u>+</u> 12
ES4	12May60	3852, 3856, 3868, 3872	7.92 <u>+</u> 0.87	65.4 <u>+</u> 7.2	257 <u>+</u> `13
EN12	20May60	3876, 3877			745 <u>+</u> 34
EN13	20May60	3878, 3879			469 <u>+</u> 22
EN14	20May60	3880, 3881	8.05 ± 0.89	68,3 <u>+</u> 7.5	1001 <u>+</u> 47
ES5	19May60	3894, 3895	2.19 <u>+</u> 0.26	18,5 <u>+</u> 2,2	635 <u>+</u> 25
ES6	19May60	3896, 3898, 3899	≤ 0.072	≤ 0.608	618 <u>+</u> 30
ES7	19May60	3900, 3902, 3903	0.400 <u>+</u> 0.047	3.38 <u>+</u> 0.40	522 <u>+</u> 26
EN15	24May60	3904, 3905	2.18 <u>+</u> 0.24	18.7 <u>+</u> 2.1	536 <u>+</u> 25
EN17	24May60	3908, 3909	5.07 ± 0.56	43.6 <u>+</u> 4.8	1001 <u>+</u> 50
3911	23May60				842 <u>+</u> 22
3913	23May60				539 ± 18
3930	31May60				712 <u>+</u> 20
3934	31May60		-		452 <u>+</u> 14
ES12	6Jun60	3953, 3954, 3955, 3956	3.32 ± 0.37	29,7 ± 3,3	689 <u>+</u> 34
3960	10Jun60		0.888 <u>+</u> 0.099	8.04 ± 0.90	276 <u>+</u> 7
3962	10 Jun60		1.61 ± 0.19	14.6 ± 1.7	243 <u>+</u> 8
3964	10Jun60		3.66 ± 0.42	33.1 <u>+</u> 3.8	549 <u>+</u> 14
ES13	8Jun60	3974, 3978, 3982, 3986	·		555 <u>+</u> 8
ES 14	8 Jun60	3975, 3979, 3983, 3987	·		346 <u>+</u> 7
ES 15	8Jun60	3976, 3980, 3984, 3988	3		221 <u>+</u> 6
ES 16	8Jun60	3977, 3981, 3985, 3989	0.358 ± 0.041	3.22 ± 0.37	155 <u>+</u> 8

Table 4, 10 Phosphorus - 32 Analyses

Composite			dpm P ³²	dpm Be 7	atoma P ³	2atoms Be 7
Sample No.	Date	Sample Numbers	1000 SCF	dpm P32	g of air	atoms P32
AZ	5Apr60	3535, 3536, 3537, 3538	12.5 ± 2.5	63 .4	10.9	231
A6	7Apr60	3577, 3578, 3579, 3580	3.04 ± 0.45	91.4	2.64	333
A7	7Apr60	3585, 3586, 3587	6.44 ± 0.80	67.1	5.60	2 44
A12	12Apr60	3627, 3628, 3629	4.35 ± 0.50	36.8	3.78	1 34
A13	14Apr60	3635, 3636, 3637 3638, 3639, 3640	11.1 <u>+</u> 1.4	62.3	9,65	227
A14	14Apr60	3645, 3646, 3647, 3648, 3649, 3650	5.03 ± 0.89	87.5	4.37	319
A18	20Apr60	3676, 3677, 3678, 3679	12.6 ± 1.7	50.8	10.9	185
A21	21Apr60	3696, 3697, 3698	4.68 ± 1.1	7 70.3	4.07	256
A22	26Apr60	3706, 3707, 3708, 3709	10.6 <u>+</u> 1.6	65.0	9.21	237
A23	26Apr60	3714, 3715, 3716, 3717, 3718	14.3 <u>+</u> 3.5	44.3	12.4	161
A26	27Apr60	3743, 3744, 3745, 3746	9.42 ± 0.69	9 65.2	8.19	237
A29	3May60	3762, 3763, 3764, 3765	7.14 ± 0.9	6 55.5	6.20	2 02
A3 0	3May60	3772, 3773, 3774, 3775, 3776, 3777	6.13 <u>+</u> 0.7	6 69.2	5.33	252
A31	5 May 60	3784, 3785, 3786, 3787, 3788, 3789	3.10 ± 0.4	4 79.7	2.69	290
EN1	10May60	3822, 3823	8.13 ± 1.6	1 62.9	7.06	2 2 9
EN2	10May60	3824, 3825	10.5 ± 1.5	66.6	9.12	242
EN3	10May60	3826, 3827	12.5 ± 2.7	61.5	10.9	224
ENIO	17May60	3840, 3841	12.6 ± 1.6	83.7	10.9	305
EN11	17May60	3842, 3843	16.1 ± 1.4	62.0	14.0	226
3911	23 May 60		5.64 ± 0.9	3 149	4.90	542
3913	23May60		9.97 <u>+</u> 1,9	9 54.0	8,66	197
3930	31May60	•-	11.2 ± 1.4	63.8	9.73	232
3934	31May60		5.72 ± 0.2	79.0	4.97	288
3962	10Jun60	-:	7.09 ± 0.6	8 34.3	6.16	125
3961	10Jun60		7.80 <u>+</u> 0.4	10 70.4	6.78	256

ACTIVITIES OF CESIUM-137 AND PLUTONIUM

Among the potentially hazardous constituents of world-wide fallout are the long lived, gamma emitting, fission product cesium-137 (29 years) and the very long lived isotopes of plutonium, plutonium-239 (24, 300 years) and plutonium-240 (6, 600 years), which may be original constituents of some weapons and may be formed by neutron activation of uranium-238 in others. Over 300 HASP samples were analyzed for cesium-137 and plutonium. The analytical results for cesium-137, in dpm/1000 SCF on collection date, and the observed Cs¹³⁷/Sr⁹⁰ ratios are given in Table 4.11. Equivalent data for plutonium are given in Table 4.12. The plutonium was alpha counted and it was not possible to determine the relative contributions to the activity of plutonium-239 and plutonium-240 because their alphas are similar in energy.

Table 4.11 Cesium-137 Analyses

Date	Sample No.	dpm 1000 SCF	Cs 137 Sr 90	Date	Sample No.	dpm 1000 SCF	Cs 1,37 Sr 90
5Nov57	23 24	1490 + 46 338 + 20	1.8 1.6	JMay58	491 492	407 + 25 338 + 26	2.3 2.8
12Nov57	50 51	412 + 13 $495 + 17$	2.7 2.4	13Jun58	538 539 540	32,4 + 14 275 + 4 251 + 8	2.0 1.5 2.2
22Nov57	89 91	1650 <u>+</u> 56 1530 <u>+</u> 46	1.7 1.6	17Jun 58	541 542	341 ± 9 4.69 ± 0.25	2.0
26Nov57	10 <u>4</u> 106	187 ± 5 138 ± 11	2.3 2.3	1104156	543 544 545	73.0 ± 1.2 162 ± 5 208 ± 24	2.1 2.9 2.4
4Feb58	197 198 200	231 + 9 334 T 16 193 T 10	1.4 1.8 0.9		547 548 549	420 1 14 372 1 77 338 1 7	2.8 2.1 1.8
7Feb58	224	727 ± 17 1090 + 20	1.7	1Jul58	574 575	(106 ± 2) (91.7 ± 2.7)	(57.9) (31.0)
	227 228	1700 ∓ 25 1650 <u>∓</u> 30	1.5 1.6	19Sep58	963	273 <u>+</u> 7	1.6
6Mar58	283 284	260 ± 13 272 ± 16	1.9 2.2	27Sep58	964	170 <u>+</u> 6	0.9
	2 85 286 287	255	2.0 2.6	1 Oct 5 8 3 Oct 5 8	967 6 4 5	179 <u>+</u> 4	1.2
	2 88 2 89	290 + 32 309 + 19	1, 8 1, 9 2, 2	30ct 58	646 654	168 + 7 171 + 10 1770 + 50	2.4 2.6 1.4
	290	204 I 18	1.4	7Oct58	667	2450 ± 61	1,3
25Mar58	349 350	368 + 15 $347 + 15$	1.9 1,6	10Oct58	674 675	1450 + 25 1440 + 40	1.1 1.3
1Apr58	375 380 381	356 ± 16 337 ± 11 463 ± 11	1.4 1.2 1.9		676 677	1180 ± 4 1 714 <u>±</u> 28	1.2
	3 84 3 85	555 + 20 518 + 16	2.2	14Oct58	688 689 690	1160 + 32 1910 ∓ 65 1160 ∓ 29	1.3 2.1 0.9
4Apr58	404 405	941 + 26 457 1 22	2.1 2.3	170ct58	691 69 4	1130 <u>∓</u> 32 870 + 30	2.0 1.5
		-	-		695 696 697 699 70 5	836 ∓ 27 1750 ∓ 52 1300 ∓ 28 623 ∓ 22 80.9 ± 10.5	1.8 1.4 1.2 1.1

Table 4.11 (continued)

Date	Sample No.	dpm 1000 SCF	Cs 137 Sr 90	Date	Sample No.	dpm 1000 SCF	Ca137
19 Oct58	716 717 719	770 + 26 894 + 18 990 + 32	0.8 2.3 1.7	9Ja n 59	99 <u>4</u> 995	440 + 15 506 + 17	2.8 2.7
22Oct58	726 729	566 + 15 150 + 6	2.5 1.7	13Jan59	100 4 1006	$\begin{array}{c} 29.6 \pm 1.2 \\ 76.0 \pm 2.4 \end{array}$	2,2 2,1
	732	1340 ± 45	1.3	1 6Jan59	1019	124 <u>+</u> 5	1.4
23Oct58	740 741	192 + 7 108 + 4	1.5 1.9	3Feb59	1062	76.5 <u>+</u> 2.4	1,6
29Oct58	748	- 172 + 15	2.3	6Feb59	1086	127 <u>+</u> 4	2.1
2900130	751 752	2330 7 61	1.3 1.3	1 0Feb59	1091	53.5 ± 1.8	2,3
	755 760	518 + 17 522 + 12 336 + 8	2.2	2 0Feb59	1129 1131	471 + 14 $344 + 11$	1.6 1.9
5Nov58	771 772	766 + 13 661 + 18	1.8 1.7	6Mar59	1192	403 <u>+</u> 52	1.9
	773 774	546 + 19 546 + 23	1.5 1.4	10Mar59	1210	95.4 <u>+</u> 2.7	1.7
	775	515 I 17	1.3	17Mar59	1235 12 42	$119 + 4$ 5.38 \pm 0.32	2.0 1.9
7Nov58	777	755 <u>+</u> 35	1.7	20Mar59	1255	378 + 18	1.9
15Nov58	798	1170 <u>+</u> 47	1.8		1259 1265	112 ± 4 18.1 ± 0.7	2. i 1. l
18Nov58	809	312 ± 10	1.6	3 A pr59	1311	127 <u>+</u> 6	1.9
20Nov58	822	318 <u>+</u> 11	1.8		1312 1315	111 1 2 14.8 7 0.6	2.ó 1.8
28Nov58	864	140 <u>+</u> 9	2.0		1317	48.9 \pm 0.7	2,2
3Nov58	872	209 <u>+</u> 10	2.0	10Apr59	1339 1 34 0	339 + 11 305 T 8	1.9 2. 0
19Dec58	942	701 <u>+</u> 14	1.4		1342 1344	100 + 1 94.5 + 1.2	2.0 1.6
6Jan59	975 976	82.3 ± 2.8 105 ± 5	1.8 2.1		1345	72.9 \pm 1.5	1.3
9Jan59	991	206 <u>+</u> 8	3.1	14Apr59	1354 1362	198 ± 6 351 ± 11	1.5 1.6

Table 4.11(continued)

Date	Sample No.	dpm T000 SCF	Cs 137 Sr 90	Date	Sample No.	dpm 1000 SCF	Cs137 Sr90
14Apr59	1364 1367	345 + 10 491 <u>+</u> 14	1.5 1.8	16Jun59	1662 1670 1672	87.0 + 1.0 20.4 7 0.6 143 7 5	1.4 1.7 1.6
28Apr59	1402	294 <u>+</u> 28	1.9	1 Jul59	1737	- 165 + 4	1.1
5May59	1430	537 <u>+</u> 55	1.8	10237	1741	334 ± 6	1.3
8May59	1435 1436 1437 1439	124 + 4 120 + 2 80.5 + 2.7 139 + 4	1.9 1.9 2.0 2.1	3Ju159 7Ju159	1757 1766 1787	529 + 4 361 + 4 112 + 4	1.8 1.5
	1442	114 ± 5	1.8	,	179,1 1793	254 1 4 101 1 1	3.2 1.5
15May59	1457 1458	36.9 ± 1.4 91.1 ± 1.0	1.7 2.2	1 4 Jul59	1836 1837	596 + 5 504 + 16	1.7 1.6
17May59	1462	253 <u>+</u> 14	1.9	2 1 Jul59	1892	124 + 1	1,6
20May59	1473 1474 1477 1478	223 ± 17 144 ± 5 251 ± 5 280 ± 8	2.1 1.9 1.8 2.0	-	1894 1897 1901 1908 1930	110 ± 4 327 ± 2 425 ± 14 392 ± 11 71.6 ± 1.3	1.6 2.0 2.2 1.8
2Jun59	1526 1 527 1 528 1529 1530	430 ± 15 472 ± 17 143 ± 14 160 ± 7 62, 2 ± 2, 4	1.9 1.5 1.0 1.5 0.5	2 4 Ju159	1932 1937 1911 1915	90.6 + 1.6 69.8 + 1.1 263 + 3 422 + 2	1.4 2.1 1.5 2.0
9Jun59	1564 1570	33.6 ± 0.8 69.1 ± 8.6	1.6 2.7		1918 1921 1925 1926	430 ∓ 4 151 ∓ 2 258 ∓ 1 372 ∓ 1	2.0 1.9 1.9 2.2
14Jun59	1594 161 4	250 ± 60 169 ± 6	1.8 0.7		1928	303	2.0
16Jun59	1618 1620 1627	242 + 8 241 + 18 363 + 11	2.2 1.7 1.6	26Ju159	1944 1953 1961	49.6 ± 1.9 155 ± 2 229 ± 4	0.4 0.9 1.0
	1629 1632 1660	422 ± 15 415 ± 14 70.7 ± 1.2	1.6 1.5 2.0	28Ju159	1972 1977 197 8	185 <u>+</u> 1 154 + 2 156 <u>+</u> 2	1.4 1.1 0.8

Table 4.11 (continued)

Date	Sample No.	dpm 1000 SCF	Cs ¹³⁷ Sr ⁹⁰	Date	Sample No.	dpm 1000 SCF	Cs ¹³⁷ Sr ⁹⁰
28Jul59	1980 198 4	422 <u>+ 14</u> 161 <u>+</u> 4	1.7	1 8Sep59	2136 2137 2138	120 + 3 267 + 3 272 + 9	1.6 1.8
4Aug55	2020	433 <u>+</u> 10	1.6		2139	138 ± 1	1.6 0.9
6 Aug5 9	2052	135 <u>+</u> 3	1.8	22Sep59	2157	44.6 ± 1.0	1.6
7Aug59	2038 2039	294 + 3 280 + 3	1.7 1.8	25Sep59	2169	281 <u>+</u> 3	1.6
8Aug59	2058 2062 2065	168 ± 3 461 ∓ 5 454 ∓ 5	1.5 1.9 1.3	3 0Sep 5 9	2176 2177 2184 2189	376 + 4 124 ∓ 2 313 ∓ 3 340 ∓ 2	1.7 1.8 1.6 1.6
21Aug59	2067 2072	16.2 + 0.2 46.8 + 0.3	0.8 1.2	1 Oct 5 9	2190 2227	339 <u>∓</u> 3 116 <u>+</u> 1	1.4 1.3
	2077 23 42	43.7 ± 0.6 28.4 ± 0.3	1.8 0.9	6Oct59	2253 2256	325 + 3 417 ∓ 4	1.3 1.8
15Sep59	2080 2082 2084	204 + 7 218 + 2 225 + 2 321 + 11	1.7 1.7 1.7		2259 2261	369 + 3 267 + 3	2.1
	2085 2087 2092	321 + 11 357 + 29 403 + 28	1.7 1.9 2.2	8Oct59	2280	13 ± 2	1.7
	2102 2105	385 + 3 326 + 2	2.1 1.4	13Oct59 14Oct59	2356 2307	83.5 ± 0.8 9.93 ± 0.32	0.9 2.0
16Sep59	2095 2096 2097	313 ± 4 384 ± 4 306 ± 3	1.8 1.7 1.6	120007	2312 2313 2318 2319	61.8 ± 0.4 39.4 ± 1.1 52.8 ± 0.8 50.4 ± 0.9	1.8 1.4 1.7
18 Sep5 9	2121 2122 2125 2126 2127 2129 2131 2132 2135	228 + 2 236 + 3 249 + 1 319 + 3 345 + 11 267 + 2 161 + 3 94.3 + 1.4 138 + 2	1.8 1.6 1.4 1.7 2.0 1.6 1.8 1.4	15 Oct 59	2367 2368 2369 2370 2371 2373 2374 2376	335 + 4 335 + 4 355 + 5 331 + 5 358 + 5 440 + 45 447 + 5 288 + 2	1.7 1.6 1.7 1.5 1.7 1.8 1.8

Table 4.11 (continued)

Date	Sample No.	dpm 1000 SCF	Cs 137 Sr 90	Date	Sample No.	dpm 1000 SCF	Cs 137
16Oct59	2325 2326 2327	286 + 2 411 + 2 295 + 63	1.6 1.9 1.6	13Nov59	2615 2616	180 ± 2 255 ± 2	1.7 1.7
	2328 2329	738 ± 3 371 ± 4	3.7 2.0	17Nov59	2642	287 ± 2	1.6
	2337 2339 2340	264 ∓ 3 333 ∓ 5 253 ∓ 5	2.0 2.3 1.5	19 Nov59	2647 2658	$ \begin{array}{r} 293 + 3 \\ 303 + 22 \end{array} $	2.0 1.8
200-450	2385	_	2.3	24Nov59	2708	76.0 \pm 0.8	1.7
20Oct59	2410 2412 2415	56.0 ± 1.0 392 1 4 361 1 3 498 1 4	1.8 1.9 1.8	1 Dec 59	275 0 2751	78.3 + 1.6 $233 + 2$	1.5 2.2
22Oct59	2426	209 ± 3	1.8	3Dec59	2774 2781	229 + 2 309 + 3	2.1 1.8
27Oct59	2458 2460	220 ± 6 277 ± 3	1.1 1.2	8Dec59	2805	324 <u>+</u> 2	1.7
28Oct59	2469	263 <u>+</u> 3	1,3	11Dec59	28 69	374 <u>+</u> 4	1.6
30Oct59	2506	149 <u>+</u> 2	1.8	22Dec59	2947	24 5 <u>+</u> 3	1.4
6Nov59	2533	238 + 2	1.9	26Jan60	3166	94.3 <u>+</u> 2.0	1.5
0110437	2534 2535	254 + 3 293 + 3	1.6	11Feb60	3296	299 <u>+</u> 5	1.4
	2536 2537	213 + 2 326 + 2	1.6	1 6Feb60	3312	195 <u>+</u> 2	2.2
	2538 2540	247 + 2 336 + 3	1.5 2.0	1 8Feb6C	334 1	142 <u>+</u> 1	1.6
	2549 2550	351 + 4 348 + 4	1.8 1.8	19Feb60	3353	169 <u>+</u> 2	1.4
	2551 2569	313 + 4 376 + 4	1.6 1.8	25Feb60	3386	252 <u>+</u> 2	1.3
	2571 2572	444 ± 5 370 ± 3	1.8	24Mar60	3494	262 <u>+</u> 3	1.1
10 Nov5 9		354 + 3 225 + 4	2.1 1.9	29Mar60	3498 3501	59.6 ± 0.5 39.3 ± 0.2	1.3 0.6
12Nov59		106 ± 1 246 ∓ 2	1.7	31 Mar 60	3525 3526	$\begin{array}{c} 139 + 2 \\ 73.8 \pm 0.9 \end{array}$	1.9 0.9

Table 4, 12 Plutonium Analyses

Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr 90	Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr 90
40ct57	15	≤0.04	€0.5	25 Mar 58	352 353	3.24 ± 0.39	1.6
5Nov57	23	15.0 + 0.6	1.8		35 <u>3</u>	3.26 ± 0.24	1.6
	31	2.41 ± 0.12	1.2		355	3.70 ± 0.03 3.17 ± 0.24	1.7
		U, 41 + 0, 12	1.2		356	3.17 + U, 24 2.35 T 0.74	1.4
8Nov57	44	1.73 ± 0.12	1.1		357	7.25 $\frac{7}{10}$ 0.64	1.8
		1.15 1 0.12	1.1		358	13.1 ∓ 0.2 3.88 ∓ 0.07	1.9
12Nov57	48	1.79 + 0.04	1.6		336	3.00 ± 0.07	1.2
	49	2.11 7 0.18	1.2	4Apr 5.8	404	7,28 <u>+</u> 0,47	
	5 Ó	3.73 + 0.23	2.4	412br 200	202	1,20 T 0,41	1.6
	51	4.77 + 0.03	2.3	8Apr 58	410	7.78 ± 0.55	1.0
	52	1.76 + 0.10	1.8	oripi su	410	1.10 10.33	1.0
	53	2.14 7 0.33	1.9	9May 58	491	3.73 + 0.22	2.1
	55	4,27 + 0,50	i.3	,a, - 0	492	3.19 ± 0.19	2.6
			-,-		493	2.74 + 0.26	2.0
22Nov57	88	5.66 + 0.23	1.8		494	2.01 + 0.14	2.0
	90	27.1 7 0.3	1.2		495	1.66 + 0.14	2.5
	91	13.0 ∓ 0.1	1.3		496	3.34 70.17	2.2
			- •		497	1.98 ± 0.14	1.2
4Feb58	222	4.90 ± 0.02	2.0		498	3.98 70.34	2.4
	223	5.50 + 0.10	1.7		499	2.97 + 0.29	2.2
	224	5.70 ∓ 0.31	1.3		500	2.05 +0.10	1.7
		_	•		501	3.91 ± 0.10	ī. 9
7Feb58	226	9.64 + 0.53	1.4		502	1.57 ± 0.02	2,5
	227	12.5 ∓ 0.8	1.1		503	1.64 ± 0.01	2.1
	2 28	12.0 \pm 0.7	1.1		504	1.70 ± 0.10	2.4
		_			505	0.82 ± 0.10	2.4
6Mar58	283	1,73 <u>+</u> 0,13	1.3		506	0.037 7 0.017	2, 1
	284	2.43 ± 0.15	2.0				. • -
	2 85	2.01 ± 0.13	1.6	13Jun58	538	0.176 + 0.013	1. 1
	286	2.58 ± 0.21	2,2		540	2.93 ∓ 0.18	2.5
	287	2.83 ± 0.18	1.7		541	3.37 70.17	2.0
	288	2.49 ± 0.17	1.6			-	•
	289	2.74 ± 0.19	2.0	17Jun58	542	0.049 ± 0.005	3.0
	290	2.74 ± 0.18	1.8		543	0.76 ± 0.05	2.2
2534	247	2			5 44	1.65 70.08	3.0
25Mar58	347	3.10 ± 0.15	1.6		545	1.70 \pm 0.09	2.0
	348	3.34 7 0.24	1.9		547	3.40 ± 0.20	2.3
	349	3.49 ± 0.29	1.8		548	4.17 ± 0.25	2.4
	350 351	3.94 ± 0.17	1.8		549	4.92 ∓ 0.30	2.6
	331	2.31 ± 0.13	1,6			-	

Table 4.12 (continued)

Date	Sample No.	dpm 1000 SCF	Fu x 100 Sr ⁹⁰	Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr 90
8Ju158	594	2.85 + 0.21	1.9	22Oct58	727	2.52 ± 0.25	2.0
	596	4.11 ± 0.34	2.1		7 28	1.85 + 0.31	4.0
	5 97	3.20 7 0.08	2.1		729	1.60 + 0.12	1.8
	·		-•-		730	0.25 7 0.08	
12Sep58	602	5.72 + 0.20	1.3		731	0.51 70.02	0.7 1.2
• -	603	5,41 + 0,43	2.4		732	11.2 + 0.3	1.1
	6 04	6,72 + 0,07	4.2		733	2.58 7 0.18	1.4
	961	1.77 + 0.05	2.4		133	2.30 T 0.16	1.4
		_	_	23Oct58	740	1.72 + 0.01	1.4
17Sep58	962	2.60 ± 0.10	2.1		741	1.74 + 0.35	3.0
		-			742	2.53 ± 0.38	3,3
19Sep58	618	1.19 ± 0.17	0.4			_,,,,	-,-
_	619	1.02 ∓ 0.02	2.0	29Oct58	751	11.1 + 0.6	0.6
	620	1.15 ∓ 0.10	1.2	-,,	752	3.61 70.27	0.9
	621	0.97 7 0.05	1.2		753	5.26 7 0.27	1.9
	9 63	3.17 ∓ 0.16	1.8		755	4.99 + 0.12	2. í
		_	- •		756	2.25 + 0.01	1.8
24Sep58	965	1.42 ± 0.02	2.7		757	1.93 ± 0.15	0.9
•		· - · <u>-</u> · · · -	• ·		759	1.19 + 0.03	1.0
27Sep58	964	3.92 + 0.02	2.1		760	2.79 ± 0.13	1.2
•	966	1.34 ∓ 0.02	1.9			3. 17 <u>T</u> 0, 13	=
			• •	5Nov58	773	4.33 + 0.37	1,2
30Sep58	638	1.78 ± 0.18	1.8	55.57.55	774	4, 15 7 0, 33	1.0
-	639	1.98 ± 0.09	2,0		775	3, 75 + 0, 31	1.0
	640	1.25 + 0.28	1.6		, , ,	<u> </u>	2,0
				7Nov58	780	3.36 ± 0.13	1.3
1 Oct 58	967	1.82 ± 0.08	1.2				•
		•		15 Nov58	794	2.13 + 0.04	2.9
2Oct58	968	0,58 <u>+</u> 0,04	0.5	•	795	1.36 70.01	3,2
3Oct58	645	2,38 + 0,25	3.5	1 / 37	661		
300130	654		0.9	16Nov58	801	0.82 ± 0.09	.1.9
	024	11.7 \pm 0.6	0.7		802	1.23 王 0.15	2.5
7Oct58	658	3,38 <u>+</u> 0,12	1.7		803	1.26 ± 0.13	2,5
, (20130	668	7.93 ± 0.10	0.8	18Nov58	805	1.92 + 0,20	2.3
	000	1,73 <u>T</u> 0,10	V. 6	-0.14,55	806	6,63 7 0,46	1.4
10Oct58	674	7.02 + 0.37	0.5		. 807	6.04 7 0,41	2.2
100,000	675	9,02 7 0,16			808	7.39 ¥ 0.48	2,8
	678	7.02 7 0.10	0. B		809	3.64 7 0.06	1.8
	0 / 0	1.51 ± 0.01	1.6		81.0	2.82 7 0.32	5.6
14Oct58	688	E 9E 4 0 27	0.3		811	3,20 ± 0,32	7.0
1400190	689	5.85 ± 0.27	0.7		812	2.04 + 0.07	1.8
		6.88 7 0.08	0.8			_	
	690 691	5.52 ∓ 0.11 4.57 ∓ 0.07	0.4	21Nov58	827	6.34 + 0.44	10.2
	0 7 1	4,51 T 0,01	0.8		830	8.32 <u>∓</u> 0.57	12,5
17Oct58	696	3.25 ± 0.16	0.3	12Dec58	895	0.92 + 0.10	1.4
	697	8.23 + 0.63	0.7	100000	896	0.81 7 0.12	1,5
			=		B 97	0.66 ± 0.01	1.5
					071	V. VV <u>T</u> V. UX	7.3

Table 4.12 (continued)

Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr90	Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr90
12Dec58	898 8 99 900 902 9 03	0.78 + 0.09 1.16 + 0.001 1.48 + 0.02 2.22 + 0.06 4.77 + 0.18	1.3 2.7 3.0 2.1	14Feb59	1111 1112 1113 1114	4.10 ± 0.32 3.47 ± 0.06 3.97 ± 0.10 2.18 ± 0.02	1.5 1.4 2.4 1.1
	904 906 907 908 909 910	4.11 + 0.35 1.94 + 0.05 2.18 + 0.08 2.25 + 0.10 3.46 + 0.12 3.32 + 0.16	1.6 1.1 1.4 1.2 1.7	3Mar59	1171 1172 1173 1174 1175	0.88 ± 0.21 2.42 ± 0.06 1.30 ± 0.02 1.42 ± 0.05 0.05 ± 0.02 0.80 ± 0.06	1.5 4.7 1.6 1.4 2.2 7.2
9Jan59	996	9.53 ± 0.79	6.1		1179 1181 1182	3.83 ± 0.49 2.99 ± 0.02 1.96 ± 0.14	1,5 1,2 0,9
16Jan59	1007 1008 1009	2.02 + 0.21 2.56 + 0.03 4.94 + 0.21	1.6 1.7 1.8		1183 1185	2.87 ∓ 0.20 1.95 <u>+</u> 0.36	1.0 0.9
	1010 1011 1012 1013	3.48 ∓ 0.22 3.31 + 0.25 7.56 ∓ 0.67 2.59 ∓ 0.05	1.0 0.9 2.5 0.8	6Mar59	1194 1201 1202	$\begin{array}{c} 2.87 \pm 0.51 \\ 0.71 \pm 0.03 \\ 4.10 \pm 0.43 \end{array}$	2.4 3.9 10.6
	1015 1016 1017	6.35 + 0.55 4.31 + 0.49 1.29 + 0.03	10.5 7.4 2.0	10Mar59	1212 1216	$\begin{array}{c} 2.69 \pm 0.33 \\ 1.71 \pm 0.26 \end{array}$	2.3 2.1
	1018 1019 1020 1021 1022	1.42 ∓ 0.14 1.42 ∓ 0.08 1.50 ∓ 0.08 1.27 ∓ 0.09 0.48 ∓ 0.05	1,3 1,7 1,5 1,4 1,6	27Mar59	1293 129 4 1297 1298	1.73 + 0.39 1.58 + 0.28 1.86 + 0.36 1.88 + 0.34	2.9 2.1 2.7 3.0
14Feb59	1 099 1100	1.06 + 0.06 1.01 + 0.16	1.9	lApr59	1303 1304	3.98 ± 0.51 3.91 ± 0.59	2.0 1.7
	1101 1102	0.88 + 0.02 1.11 + 0.13	1.1 1.2	3Apr59	1310	2.68 ± 0.32	1.7
	1103 1104 1105	0.91 〒 0.16 1.24 〒 0.19 0.98 〒 0.04	1.9 2.3	7Apr59	1322 1330	$\begin{array}{c} 1.53 \pm 0.24 \\ 2.37 \pm 0.18 \end{array}$	3.8 1.1
	1106 1108 1109 1110	1.02 ± 0.12 3.95 ± 0.43 3.62 ± 0.05 3.71 ± 0.36	2.1 2.0 2.0 1.9	14Apr59	1354 1355 1356 1357	2.54 + 0.04 2.37 + 0.19 3.09 + 0.09 3.20 + 0.02	1.9 1.8 1.9 1.9

Table 4.12 (continued)

Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr 10	Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr90
14Apr59	1358	2.85 + 0.03	1.9	2Ju159	1754	1,23 + 0,31	2.0
p ,	1359	6.59 + 0.28	2. í	2011 37	1755	1.16 + 0.27	1,2
	1360	7. 73 + 0.29	2.5		1756	0.98 7 0.29	
	1361	3.29 + 0.03			1750	U. 70 T U. 47	1.2
		3.29 + 0,03	1.1	4		2 22 . 2 24	
	1362	3.77 ± 0.03	1.8	3Ju159	1757	3.92 ± 0.74	1.3
	1363	3.76 ± 0.05	1.7		,1766	3.19 ∓ 0.42	1.3
	1 3 6 4	3.59 ∓ 0.27	1.5			_	
	1365	2,44 7 0.03	1.9	7Ju159	1787	1.02 ± 0.33	1.1
	1366	2.55 7 0.08	1.9		1790	0.59 \(\overline{4} \)	1.2
	1367	3.39 7 0.26	1.2		1792	0.73 ∓ 0.19	0.9
					1793	0.80 + 0.34	1.2
21Apr59	1385	2.51 + 0.23	2.3		j.,-	····	
0111p10,	1389	1.27 7 0.22	0.6	14Jul59	1838	2.59 + 0.49	1.1
	1007	1.4. 10.00	0.0	1404137	1839	5.22 ¥ 0.73	1.5
22Apr59	1663	3.14 + 0.15	1.6		1057	5,22 70,15	1.5
LLAPIST				107150	1052	1 57 . 0 10	
	1664	3.54 ± 0.19	1 .4	17Ju159	1853	1.57 ± 0.18	1.1
					1854	1.75 ± 0.35	1.0
25Apr59	1665	0.79 ± 0.05	1.5		1859	0.59 ± 0.17	1.3
	1 666	2.86 ± 0.17	1.3		1860	0.56 ± 0.18	1.1
26Apr59	1394	3.71 + 0.38	1.6	21Jul59	1932	1.07 + 0.38	1.7
F ,	1398	3.62 7 0.38	1.8		1936	0.47 ∓ 0.13	i. ż
	10,0	or <u>-</u> 0, 50	1,0		1937	0.58 7 0.35	1.8
29Apr59	1668	3.27 ± 0.21	1.8		1701	0,30 T 0,33	1.0
27Apt 37	1000	3,21 <u>T</u> 0,21	1,0	23Ju159	1938	0.00 0.07	
134	1417	2 22 1 4 24	2.0	2330139		0.08 ± 0.07	1.8
1 May 59	1417	2.33 <u>+</u> 0.24	2.0		1939	0.06 7 0.07	2.3
		4 50			1940	0.69 ± 0.14	1.3
5 May 59		1.58 ± 0.30	2.2		1 94 1	0.55 ± 0.14	1.5
	1425	2.81 ± 0.42	1.8				
	1428	3.22 ± 0.54	1,8	24Ju159	1911	1.09 ± 0.32	0.6
		_			1915	3.78 ∓ 0.60	1.8
12May59	1449	2.59 + 0.44	4.0		1918	2.84 70.59	1.3
		• • •			1921	1.65 7 0.26	2.1
20May59	1475	1.09 ± 0.24	2.0		1925	2.11 ¥0.20	1.6
=0	1479	2.43 7 0.25	1.8		1 926	2.89 Ŧ0.43	1.7
	1487	0.61 7 0.11	3.3		1928	2.02 7 0.23	1.3
	1 701	0. 01 <u>T</u> 0. 11	3.3		1760	2.UL T U.23	1,3
1Ju159	1737	2.24 + 0.41		26Jul59	1944	1.50 ± 0.38	1.2
	1741	2.01 ± 0.54			1953	2,21 70,31	1.3
					1961	1,77 王 0.55	0.8
2Ju159	1753	1.01 ± 0:26	2.0			-	

Table 4.13 (continued)

Date	Sample No.	dpm 1000 SCF	Pux 100 Sr ⁹⁰	Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr 90
28Ju159	1972	1,18 ± 0,22	0.9	1 4Oct59	2312	0.04 + 0.03	0.1
	1977	1.33 ± 0.30	0.9		2313	0.29 Ŧ 0.05	0.1
	1 978	1.82 ± 0.29	0.9			-	
	1 979	3.71 ± 0.49	1.7	15Oct59	2373	2.34 ± 0.29	1.0
31Jul59	2001	1,20 + 0,30	3.0		2376	2.56 ± 0.38	1.2
3134137	2 0 0 2	0.92 + 0.22	2.0 1.6	16Oct59	2324	1.90 + 0.24	1 1
	2 004	2.64 + 0.25	1.4	1000139	2324	1.70 10.24	1.1
	2 005	$\frac{1}{1}$, 79 $\frac{1}{4}$ 0.30	1.1	20Oct59	2385	0.298 ± 0.159	1.2
		<u> </u>	-•-		2410	2.00 + 0.54	0.9
8Aug59	2058	1.81 ± 0.60	1.9		2412	2.44 + 0.42	1.3
-	2062	2.78 ± 0.68	1.1		2415	4.70 + 0.72	1.7
	2065	3.88 <u>∓</u> 0.77	1,3			_	-
				22Oct59	2426	1.00 <u>+</u> 0.25	0.9
21 Aug59	2070	0.58 ± 0.05	1.7				
	2072	0.67 ± 0.07	1.7	27Oct59	2458	3.25 ± 0.67	1.6
	2 075 2 320	0.40 7 0.09	1.4		2460	2.26 ± 0.67	1.0
	2 320	$0,31 \pm 0.04$	0.8	6Nov59	2572	2 40 40 41	1.4
15Sep59	2102	2.28 + 0.33	1.2	07/0/23	2312	3.40 ± 0.41	1.4
100cp3 /	2105	3.98 + 0.60	1.7	10Nov59	2580	2.98 ± 0.35	1.8
		-1/0 1 0100	-• ·	101.010,	2583	1.84 ± 0.47	1.5
18Scp59	2125	1.59 ± 0.29	1.0				-,-
-		_		12Nov59	2637	0.866 + 0.213	1.4
25Sep59	2169	2, 12 <u>+</u> 0, 61	1,2			_	
				17 Nov59	2 642	4.07 <u>+</u> 0.37	2.2
30Sep59	2180	0.754 ± 0.162	1.4				
	2185	3.20 ± 0.37	1.4	19 Nov5 9	2647	2.16 ± 0.34	1.4
	2 189 2 190	3.86 平 0.43 2.73 干 0.45	1.8 1.2	24Nov59	2708	0 (4 1 0 12	, ,
	2170	E. 13 T 0. 33	1.2	24140037	2100	0.66 ± 0.13	1.5
l Oct59	2227	0.88 + 0.23	1.0	1 Dec59	2750	1.21 + 0.31	2,3
			- •		2751	1.32 7 0.36	1.2
6Oct59	2235	3.30 <u>+</u> 0.31	1.4			-	-•
	2253	3.47 ± 0.39	1.4	3Dec59	2774	1.15 ± 0.25	1.1
	2256	2.35 7 0.65	1.0		2778	1.83 ± 0.29	1.3
00-15-	2200	1 30 4 0 40	, .		2781	3,22 <u>∓</u> 0,66	1.9
8Oct59	2280	1.39 ± 0.40	1.1	075-650	2005	4 00 1 0 41	• •
13Oct59	2356	1.93 + 0.26	2,2	8Dec59	2805	4.08 ± 0.41	2, 1
1300139	٥٥٥١	1,73 <u>T</u> 0,20	2,6	9 Dec 5 9	2835	1.47 <u>+</u> 0.24	2.0

Table 4.12(continued)

Date	Sample No.	dpm 1000 SCF	Pu x 100 Sr ⁹⁰
11Dec59	2869	9.65 <u>+</u> 1.19	4.3
22Dec59	2947	1.74 ± 0.56	1.0
23Dec59	2957	3.51 ± 0.71	1.5
26Jan60	3166	1.30 ± 0.36	2.1
11 F eb60	3296	4.89 ± 0.89	2,2
16Feb60	3312 3328	$\begin{array}{c} 2.51 \pm 0.38 \\ 9.33 \pm 1.21 \end{array}$	2.8 3.9
18Feb60	3332 3341	$\begin{array}{c} 2.39 \pm 0.39 \\ 1.34 \pm 0.16 \end{array}$	2.1 1.5
19 F eb60	3353	1.09 ± 0.22	0.9
25Feb60	3386	0.99 ± 0.22	0.5
24Mar60	3494	3.82 <u>+</u> 0.74	1.6
29Mar60	3498 3501	$\begin{array}{c} 0.50 \pm 0.08 \\ 1.07 \pm 0.12 \end{array}$	1.0 1.7
31 Mar60	3525 3 526	$\begin{array}{c} 1.26 \pm 0.21 \\ 0.47 \pm 0.09 \end{array}$	1.7 0.6
8Jun60	3979	1.41 ± 0.17	1.2

ACTIVITIES OF ACTIVATION PRODUCTS

A few measurements were made of calcium-45 and sodium-22 activities in HASP samples. Sodium-22 (2.6 years) is formed by neutron activation of sea salt during the explosion of a nuclear weapon in contact with marine waters.

Calcium-45 (160 days) is formed by neutron activation of calcareous rocks, such as coral, during such explosions. It is likely that considerable quantities of these nuclides were produced by United States weapon tests in the Pacific during 1952, 1954, 1956 and 1958 and it is possible that measurable quantities are still present in the stratosphere, where they might be used as tracers for debris from U.S. surface shots.

Data from the analysis of a few individual HASP samples are presented in Table 4.13. The mean latitude and altitude of collection of the samples are included in the tables. It would appear that composites of several samples would have to be analyzed to give more usable information.

Table 4.13 Sodium-22 and Calcium-45 Analyses

Sample No.	Date	Mean Latitude	Altitude (feet)	dpm Na ²²	dpm Ca ⁴⁵
755	29Oct58	41°N	55,000	93.2 <u>+</u> 2.5	
831	22Nov58	41°N	55,000	18,7 <u>+</u> 1,0	
935 938 939	19Dec58	35°N 18°N 5°S	64,500 65,000 65,000	< 3.8 < 9.4 < 2.5	≤ 59
1302	1Apr59	19°N	67,200	≤ 5,1	<u><</u> 38
1429	5May59	7°N	68,700	≤ 3.3	≤ 32
1694	23Jun59	19 °N	67,500	<u><</u> 1.7	≤ 17
1834	14Jul59	1 °N	65,600	≤ 2. 7	≤ 15
1918 1919	24Jul59	53°N 48°N	65,000 65,000	≤ 1.4	≤ 13

THE ANALYSIS OF COMPOSITE SAMPLES

The radiochemical procedures used for the analysis of HASP filter samples were designed for the measurement of the activities normally displayed by fission products in the stratosphere. When samples were collected in the troposphere instead or when activities were low due to long continued decay of short-lived fission products or to low production rates of tracer nuclides or cosmic ray products, it was often necessary to combine samples into composites to provide the higher activities needed for accurate and precise measurements.

Only occasionally, during the first four phases of Crowflight, was it necessary to combine samples in order to analyze them for strontium-90. During Phase 5, however, all samples collected at Eielson and many collected at Ezeiza were combined into composites because of the short exposure times which were common for such filters. The samples which were combined into composites for strontium-90 analysis are listed in Part A of Table 4.14. Strontium-89 was also measured in some of these composites.

Part B, of Table 4, 14 lists those composites which were analyzed for strontium-89. The first half of this list includes samples which were measured only as composites. The samples listed in the second half were also analyzed individually for some nuclides, including strontium-90. For these latter samples the strontium-90 activities listed in Tables 4.2 and 4.3 are those of the individual samples. It was necessary to measure strontium-90 in the composites also, however, in order to calculate the strontium-89 concentrations. The strontium-90 data for the composites, in dpm/1000 SCF, are given in Part B of Table 4.14. They are not given or used elsewhere in this report.

As tungsten-185 activities in stratospheric air decreased during 1959 it

became evident that composites would have to be analyzed if usable information was to be obtained. Hence a large number of such composites were prepared and analyzed, especially for samples collected during late 1959 and early 1960. The samples used in these composites are listed in Part C of Table 4.14.

Twice composites were used for the analysis of zirconium-95, and most cerium-144 measurements made on samples collected during Phase 5 of Crowflight were made on composites. The samples involved are listed in Table 4.14, Parts D and E.

It has been mentioned above that most samples analyzed for fhodium-102, beryllium-7 and phosphorus-32 were analyzed as composites. These samples are listed in Tables 4.9 and 4.10.

Table 4, 14 Samples Analyzed as Composites

A. Samples Analyzed for Strontium-90 as Composites

158, 159	1557, 1558	3840, 3841
173, 174	1559, 1560	3842, 3843
175, 176	1561, 1562	3876, 3877
	1501, 1502	2010, 3011
371, 372	1571, 1572	3 878, 3 879
373, 374	1589, 1590	3880, 3881
415, 416	1635, 1636, 1637, 1638	3894, 3895
4:17, 4:18	3822, 3823	3896, 3898, 3899
435, 436	3824, 3825	3900, 3902, 3903
_ *		
437, 438	3826, 3827	3904, 3905
1055, 1056, 1057, 1058	3828, 3829	3906, 3907
1063, 1064, 1065	3830, 3831	3908, 3 909
1067, 1068, 1069, 1070	3832, 3833	3943, 3952
1351, 1352, 1353	3834, 3835	3945, 3946, 3950
1371, 1373	3836, 3837	3947, 394 9
1452, 1453, 1454, 1455	3838, 3839	

B. Samples Analyzed for Strontium-89 as Composites

1. Strontium-90 analyzed only in the composite

```
371, 372
373, 374
1055, 1056, 1057, 1058
1063, 1064, 1065
1067, 1068, 1069, 1070
1351, 1352, 1353
1371, 1373
1452, 1453, 1454, 1455
1561, 1562
```

2. Strontium-90 analyzed in the individual samples as well as in the composite

	Sr ⁹⁰ activity of composite (dpm/1000 SCF)
2141 - 2146	106 + 3
2201 - 2204	33 ∓ 1
2205 - 2210	119 7 2
2215 - 2220	245 T 10
2221 - 2224	125 7 1
2292 - 2297	95 Ŧ 3
2345 - 2348	95 Ŧ 4
2349 - 2351	171 🖚 5
2416 - 2419	239 🗍 1
2420 - 2425	84 ∓ 3
2515 - 2518	79 ‡ 5
2519 - 2524	< 13 -
	726

C. Samples Analyzed for Tungsten-185 as Composites

1055, 1056,	1057,	1058	2936-2939	3312-3315	3557-3559
1063, 1064,	1065		2941-2944	3317-3320	3560-3562
1067, 1068,	1069,	1070	2947-2950	3322-3325	3568-3571
1351, 1352,	1353		2951-2954	3328-3331	3572-3575
1371, 1373			2956-2959	3332-3335	3577-3580
1557, 1558			2960-2963	3336-3338	3581-3584
2201, 2202,	2203,	2204	2966-2969	3339-3341	3588-3590
2205-2210	·		2970-2973	3348-3351	3601-3604
2215-2220			3062-3065	3368-3371	3605-3607
2221, 2222,	2223,	2224	3068-3071	3372-3374	3608-3610
2292-2297			3092-3095	3375-3377	3611-3614
2345-2 34 8			3096-3098	3378-3381	3615-3617
2349-2351			3099-3101	3382-3385	3618-3620
2416-2419			3103-3105	3388-3391	3621-3624
2420-2425			3106-3109	3402-3405	3627-3629
2515-2518			3113-3115	3406~3408	3631-3634
2519-2524			3118-3120	3409-3411	3635-3637
2715-2718			3122-3125	3412-3415	3638-3640
2719-2722			3128-3130	3418-3421	3641-3644
2725-2728			3132-3135	3422-3425	3645-3647
2730-2732			3138, 3139, 3141	3426-3429	3648-3650
2735-2738			3153-3155	3430-3433	3651-3654
2765-2768			3156-3159	3455-3457	3656-3659
2771-2774			3162-3165	3458-3460	3660-3663
2781-2784			3166-3168	3461-3463	3664-3666
2785-2788			3176-3179	3464-3466	3667-3669
2792-2795			3180-3182	3469~3472	3670-3673
2798-2800			3196-3198	3479-3482	3676-3679
2806-2808			3200-3203	3483-3484	3680-3683
2812-2814			3206-3209	3487-3489	3684-3689
2817-2820			3210-3213	3490-3492	3690-3693
2873-2876			3217-3219	3494-3496	3696-3698
2877-2879			3242-3244	3505-3507	3706-3709
2880-2882			3246-3249	3510-3512	3710-3712
2883-2886			3280-3282	3514-3517	3714-3715
2900-2903			3062-3065 3068-3071 3092-3095 3096-3098 3099-3101 3103-3105 3106-3109 3113-3115 3118-3120 3122-3125 3128-3130 3132-3135 3138, 3139, 3141 3153-3155 3166-3165 3166-3165 3166-3165 3166-3168 3176-3179 3180-3182 3196-3198 3200-3203 3206-3209 3210-3213 3217-3219 3242-3244 3246-3249 3280-3282 3283-3285 3287-3290 3293-3296 3297-3300 3302-3305 3309-3311	3519-3521	3716-3718
290 4 -2906			3287-3290	3523-3525	3719-3722
2907-2909			3293-3296	3526-3527	3730-3732
2910-2913			3297-3300	3539-3542	3733-3736
2914-2916			3302-3305	3549-3552	3737-3739
2917-2919			3309-3311	3553-3556	3743-3746

C. (continued)

3747-3748	3802-3805	3896, 3898, 3899
3749-3750	3808-3810	3900, 3902, 3903
3758-3761	3812-3815	3906-3907
3762-3764	3819-3821	3 916, 3 918, 3 919
3765-3767	3849, 3853, 3865, 3869	3943, 3952
3768, 3769, 3771	3850, 3854, 3866, 387 0	3945, 3946, 3950
\$772-3774	3851, 3855, 3867, 3871	3947, 3949
3775-3777	3852, 3856, 3868, 3872	3953-3954
3784-3786	3876, 3877	3955-3956
3794-3795	3878, 3879	3974, 3978, 3982, 3986
3798-3799	3880, 3881	3975, 3979, 3983, 3987
3800-3801	3894, 3895	3976, 3980, 3984, 3988
		3977, 3981, 3985, 3989

D. Samples Analyzed for Zirconium-95 as Composites

175, 176 187, 188

E. Samples Analyzed for Cerium-144 as Composites

3822-3823	3838-3839	3900, 3902, 3903
3824-3825	3840-3841	3904, 3905
3826-3827	3842-3843	3906-3907
3828-3829	3876-3877	3908-3909
3830-3831	3878-3879	3916, 3918, 3919
3832-3833	3880-3881	3943, 3952
3834-3835	3894-3895	3945, 3946, 3950
3836-3837	3896, 3898, 3899	3947, 3949

DUPLICATE ANALYSES OF HASP SAMPLES

In the evaluation of the precision of HASP radiochemical measurements (Chapter 3) reference was made to the duplicate analysis of a number of samples. Table 4. 15 is a list of samples which were analyzed in duplicate for strontium-90 (Part A), strontium-89 (Part B), zirconium-95 (Part C), cerium-144 (Part D), tungsten-185 (Part E), tungsten-181 (Part F), barium-140 (Part G), and cesium-137 (Part H). The notations QI, QII, etc. indicate that two or more quadrants of the sample were analyzed separately, and that the quadrant designated was also analyzed in duplicate.

Often analytical results would fail to agree with predicted concentrations, or samples collected within the same region would differ greatly in activity, and analytical errors would be suspected. When this occurred the samples were sometimes reanalyzed, especially if it was the strontium-90 data which showed the discrepancy. When the reanalyses were completed the data were examined and either the original number was discarded or both the original and the reanalysis were accepted and were averaged. Samples which were reanalyzed in this way for strontium-90 are listed in Table 4.16. A few samples which were also reanalyzed for strontium-89 are listed in Table 4.17, and those reanalyzed for other nuclides are listed in Table 4.18.

Table 4.15 Duplicate Analyses of Individual Sample Solutions

A. Samples Analyzed in Duplicate for Strontium -- 90

266 268	32 4 325	351 QII 352 QI	1255 1270	2327 2372
283	326	352 QII	1306	2405
284	327 QI	353 QI	1335	2494
285	327 QII	353 QII	138 4	2539
286	328 QI	354 QI	1400	2572
287	328 QII	354 QII	1429	2601
288	329 QI	355 QI	1461	2658
289	329 QII	355 QII	1495	2755
290	330 QI	356 QI	1520	2805
313	330 QII	357 QI	1548	2855
314	335	357 QII	1573	3042
315	336	358 QI	1600	3091
316	338	358 QII	1617	3214
317	344	359	1667	3234
318	347 QI	360	1748	3357
319	348 QI	361	1750	3486
320	348 QII	363	1895	3534
321	349 QII	1060	1923	3585
322	350 QI	1090	1925	3655
323 QI	350 QII	1150	2088	3674
323 QII	351 QI	1193	2116	3753
		1230	2124	3816

B. Samples Analyzed in Duplicate for Strontium-89

266	328 QII	355 QI	1306	1925
268	329 QI	356 QI	1335	2088
283	329 QII	357 QI	1384	2116
284	330 QI	358 QI	1400	2124
285	330 QII	358 QII	1429	2327
286	335	359	1461	2372
289	338	360	1495	2405
290	344	361	1520	2494
316	348 QI	363	1548	2539
317	350 QI	1060	1573	2572
323 QII	351 QI	1090	1600	2601
324	351 QII	1150	1617	2658
326	352 QII	1193	1667	2755
327 QI	353 QI	1230	1748	2855
327 QII	353 QII	1255	1750	3042
328 QI	354 QII	1270	1895	3091
			1923	3234

C. Samples Analyzed in Duplicate for Zirconium-95

283	314	325	336	354 QI
284	316	326	337	355 QI
285	317	327 QI	338	355 QII
286	318	327 QII	343	256 QI
287	319	328 QI	344	356 QII
289	320	328 QII	345	357 QII
290	321	329 QII	350 QI	358 QII
299	322	330 QI	352 QI	359
313	324	330 QII	352 QII	360
		335	353 QI	361

D. Samples Analyzed in Duplicate for Cerium-144

284	352 QI	358 QI	1925	3091
327 QII	352 QII	682	2124	3214
328 QII	353 QII	1060	2327	3234
329 QII	354 QII	1255	2539	3357
330 QII	355 QI	1270	257 2	3486
347 QII	355 QII	1 30 6	2601	3534
348 QII	356 QI	1384	2658	3585
349 QII	356 QII	1 4 00	2755	3655
350 QII	357 QI	1511	2805	3674
351 QII	357 QII	1895	2855	3753
		1923	3042	3816

E. Samples Analyzed in Duplicate for Tungsten-185

535	1255	1495	1895	2494
1060	1270	1520	1923	2539
1079	1306	1548	1925	2572
1090	1335	1573	2088	2601
1 1 50	1384	1600	2116	2658
1180	1 4 00	1617	21 24	2755
1193	1429	1667	2327	2855
12	1461	1 74 8	2372	3042
		1750	2 4 05	3091

F. amples Analyzed in Duplicate for Tungsten-181

1060 1617 G. Samples Analyzed in Duplicate for Barium-140

359
360
361
363

H. Samples Analyzed in Duplicate for Cesium-137

283
284
285
286
287
288
289
290
2327
2658

Table 4.16 Samples Which Were Reanalyzed for Strontium-90

A. Analyzed twice, one result accepted

23	251	1000	1320	1857
25	303	1007	1380	1876
26	375	1010	1381	1877
29	384	1017	1390	1878
30	389	1018	1391	1879
35	427	1019	1412	1880
36	476	1021	1413	1882
37	477	1035	1499	1883
38	58 4	1038	1527	18 94
39	595	1044	1529	1897
41	619	1061	1533	1926
42	639	1072	1566	1937
43	668	1073	1579	1946
47	670	1079	158 4	1974
50	677	1105	1593	1976
51	700	1107	1614	2017
52	702	1110	1645	2021
53	70 4	1127	1655	2024
62	729	1 145	1665	2025
68	739	1146	1727	2026
71	764	1154	1738	2027
73	782	1 155	1739	2029
74	809	1168	1750	2031
75	837	1182	1754	2032
89	841	1183	1755	2058
96	849	1184	1756	2065
97	850	1185	1762	2085
98	855	1187	1764	2127
99	885	1203	1767	2128
104	90 4	1204	1776	2138
105	906	1205	1804	2151
106	923	1206	1806	2160
110	940	1251	1809	2163
135	967	1262	1827	2194
148	982	1263	1833	2197
180	985	1266	1836	2230
192	988	1286	1839	2257
208	989	1292	1846	2259
222	992	1295	1847	2277
223	993	1319	1853	2283
	• • •	,		, 4403

A. (continued	l)
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2284	2559	2834	3033	3390
2288	2610	28 36	3045	3391
2299	2673	2840	3047	3435
2330	2697	2842	3112	3518
2332	2698	2857	3115	3533
2333	2724	2862	3116	3536
2370	2727	2867	3126	3538
2377	2732	28 71	3146	3548
2386	2733	288 1	3160	3631
2407	2741	2882	3161	3643
2409	2744	2883	3167	3649
24 55	2 76 4	2898	3168	3650
2473	2776	2899	3244	3751
2476	2780	2907	3302	3754
2482	2795	2919	3319	3757
2485	2 796	2927	332 9	3799
2513	2798	2928	3347	3815
2545	2828	299 1	3352	384 <u>4</u>
2546	28 29	2992	3387	3873
2549	2833	3031	338 9	3924
				3974

B. Analyzed twice, both results accepted

61	385	1016	1749	2696
69	388	1032	1753	2739
70	491	1059	1790	2767
72	5 78	1080	1797	2794
91	6 54	1096	1884	2800
102	658	1252	1896	2838
103	667	1256	1903	284 6
111	673	1258	1940	2864
112	676	1379	1914	2866
113	682	1536	1915	2885
123	693	1540	1916	28 96
136	711	1570	1917	3145
142	740	1575	1927	
145	753	1615	1928	3149
146	759	1616	1973	3150
147	778	1632	1975	3203
179	779	1650		3249
197	780	1664	2089	3283
198	784	1668	2172	3284
229	878	1685	2253	3285
291	887	1708	2270	3326
343	965	1709	2285	3349
3 4 5	967	1725	2289	3674
346	1008		2334	3760
340		1726	2445	38;
	1009	1728	2664	3926

C. Analyzed three times, one result accepted

D. Analyzed three times, two results accepted

E. Analyzed three times, three results accepted

Table 4, 17 Samples Which Were Reanalyzed for Strontium-89

A. Analyzed twice, neither result accepted

2482

B. Analyzed twice, one result accepted

639	1044	1380
702	1061	1391
1000	1072	1412
1007	1073	1413
1017	1190	1976

C. Analyzed twice, both results accepted

693	1016
755	1096
780	1379

Table 4.18 Samples Which Were Reanalyzed for Cesium-137, Tungsten-185 Zirconium-95 or Barium-140

A. Analyzed twice, one result accepted

Cs 137	W185
89	528
91	539
375	546
3 84	550
385	
491	
492	
540	
541	
544	
963	

B. Analyzed twice, both results accepted

Cs 137	w ¹⁸⁵	Zr 95	Ba 140
538	1405	72	566
545		73	
548		108	
2087		400	
2092		404	
2373		405	